

D-066 part 7

HEOW56	2207	883227	1 - 212	15 - 226	U46349, AL039564, AL039085, AL039156, AL039108, AL039109, AL039128, AL119418, AL037639, U46347, AL134528, AL037094, AL037085, AL119444, AL042965, AL039659, AL036268, AL036196, AL036190, AL042614, AL134533, AL042975, AL037205, AL119439, AL037526, AL038531, AL134902, AL036767, AL142132, U46345, AL134518, AL134524, AL037082, AL134531, AL042450, AL042984, AL042551, AL039625, AL039648, AL038520, AL045337, AL036238, AL042970, AL119488, AL042009, AL037077, AL038447, AL039678, AL039629, AL039386, AL042544, AL043019, AL043029, AL042542, AL039423, AL036998, AL037615, AL038851, AL043003, AL036719, AL036733, AL037027, AL037178, AL119464, AL036774, AL037021, AL039410, AL036679, AL036765, AL036886, AL036191, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AR054110, and AB026436.
HEOW56	2207	883227	1 - 212	15 - 226	
HEOW81	2208	887147	1 - 1046	15 - 1060	AW340464, and AF127389.
HEORC12	2209	969585	1 - 432	15 - 446	
HEORC48	2210	922885	1 - 800	15 - 814	T91937, T99157, T96469, AW082364, A1268419, A1690257, and AB007861.
HEORE11	2211	965904	1 - 746	15 - 760	R93208, Z99396, AW392670, AL036418, AL038837, AW372827, AW384394, AL037051, AL036725, AL119497, AL119319, AW363220, AL119457, AA631969, AL119324, AL119483, AL119484, AL119391, AL119443, U46350, AL119522, AL119363, AL038509, U46351, AL036858, U46341, AL119355, AL039074, AL119418, U46349, AL119341, AL119335, AL036924, AL119496, AL119396, U46347, AL119399, AL119444, AL037205, AL119439, AL042965, AL037639, AL134531, AL039564, AL134538, AL039085, AL039128, AL036196, AL039156, AL037082, AL039108, U46346, AL039109, AL037526, AL039128, AL036196, AL134533, AL134536, AL042614, AL043029, AL134920, AL042975, AL042544, AL042984, AL037615, AL036767, AL134532, AL038447, U46345, AL037085, AL036190, AL042542, AL043019, AL037077, AL042551, AL038851, AL043011, AL036268, AL042450, AL038520, AL043003, AL036998, AL036238, AL036733, AL037178, AL119464, AL036774, AL037021, AL036836, AL037027, AL036765, AL036719, AL036191, AL036679, AL036158, AL036886, AR066494, AR060234, A81671, AR023813, AR064707, AB026436, AR069079, and AR054110.
HEORE22	2212	969579	1 - 704	15 - 718	
HEORE27	2213	850902	1 - 636	15 - 650	
HEORE79	2214	959572	1 - 315	15 - 329	
HEORF12	2215	969580	1 - 530	15 - 544	Z99396, AW392670, AW372827, AW384394, U46349, AL119483, AL119497, AW363220, AL119319, AL119355, AL119457, AL119443, AL119324, U46341, AL119484, AL119363, AL119391, AL036418, AL038837, AL119341, U46350, AL119522, U46351, AL037051, AL036725, AA631969, AL119335, AL119396, AL042975, AL119496, AL036858, AL119418, U46347, AL119399, AL119444, AL134538, AL037205, AL039074, AL119439, U46346.

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HEORH20	2216	934067	1 - 417	15 - 431	AA460896, AA210943, H10636, W72144, A1799445, N27422, AA834765, AC007014, U63630, Z99774, AL031276, AL031584, AC002565, AC006449, AL023807, AL035413, AC007685, AL079342, AL031291, AL049539, AP000404, AC005045, AC005488, AC004674, AC002470, AL022721, AC007436, and AC000078.
HEORJ90	2217	918166	1 - 250	15 - 264	
HEORK01	2218	914988	1 - 202	15 - 216	
HEORM10	2219	963194	1 - 411	15 - 425	Z85996.
HEORM21	2220	839142	1 - 422	15 - 436	AW376621, AW404049, AA045146, A1905741, AA309643, AA192275, R06391, U66685, TS5620, and AA085953.
HEOIR01	2221	915015	1 - 648	15 - 662	A1022223, AW179316, A1065031, AA640305, AA515165, A1744817, A1500151, TS7562, A1623505, AA192366, AA209415, AW087537, AA369494, AA151880, A1340151, F17549, AA708889, AA489939, AA569631, D29424, AA730530, AA601376, AA224525, A1683079, AL048969, R86114, AW082432, A1925588, A1383589, AW405593, AA084946, A1198211, A1926909, AW275788, AA661583, AW247866, R42954, A1520984, AW021674, A1571847, AA557764, A1809745, AA578326, AA577824, A1567676, A1801563, A1702049, AW148821, A1002950, AA133568, F29968, AA180756, AL121039, AL133246, AL021154, AC007298, AP000348, AC006511, AC012627, L91326, AC004966, AL121923, AC003665, AC005031, AC002300, AC007308, AC005200, AC006084, Z83819, U62317, AL050321, AL109801, Z97054, AC004149, AL049872, AC005667, AC005089, AL109613, AC006014, AC005215, AC005799, AC006312, Z83844, AC004019, AC007216, AC004650, AC005180, AL049539, AC006285, AC004765, AC005488, Z94801, AC000353, AC005003, AC005726, AC005746, AF053356, AL049869, AL133448, AC002558, AC004257, AC005005, AC002077, AC006365, AC005015, AL031311, AC005531, AL024507, Z93241, Z98950, AC005519, AL008719, AC007192, AC004799, AC005940, AC006013, AC002091, AC005412, AC004638, AC005067, AC004477, AP000557, AC003957, AC012384, AC003101, AL021391, AC002377, AC008044, AC006449, AC007263, AL008637, AL078638, Z93017, AB025285, AL049636, AC003010, AC004999, AL022326, AC005332, AC005539, AL031295, AP000356, AF165926, AC002369, AC004699, AC006211, AC005527, AC002470, AP000555, AC005484, AC007688, AL080243, AL049631, AC005913, AL009181, AL035458, AC005971, AF001550, AP000688, AC009308, AC007919, U95742, AC007277, AC001231, AC007686, AB003151, AC004985, AL121603, AC005695, AC007225, AC005755, Z97876, AF036405, Z81364, AC006455, AF031076, AC006251.

HEORU06	2222	934097	1 - 494	15 - 508	AL049830, AC006130, AC005839, AC005295, AF205588, AL031650, AC005231, AC005593, AL020997, AC007227, AC005175, AC008041, AL049757, AL096701, AC002310, AL049776, AC004797, AC006237, AC004167, U85195, AC005104, AF001549, AC005004, AC004671, AC006057, AC008134, AL022318, AL096791, AL031289, 284469, AC005682, AC005377, AC005252, AC005919, AC005323, AC004185, AP000152, AC006088, AC004030, AD000812, AC005619, AL008710, AE000658, AC005081, AC007371, AL031662, AC005822, AC005829, AL022323, AC005250, AP000088, AC005291, AC006441, AC005220, AC002126, AF045555, AP000553, 292542, AC004231, AC002544, AC006132, AF134726, AC003043, AC004811, AC004883, AC004882, AL049761, AC005921, AC004859, AL022320, AC004517, AC002306, AL049712, 282215, AP000039, AC008055, AL020995, AL049795, AC007676, AC006249, 294056, AL034549, U96629, AC005523, AL008726, AC005288, U52112, AF042089, AC005358, AL049653, AC005048, AC002347, AC004031, AL033527, 293244, AC004024, AF195658, AF111169, AC006121, AP000962, AC003037, AL022315, AC005305, AC004975, AC006236, 298048, AC002350, AL139054, AL096703, AC007011, AL121652, AC005516, AC005324, AC007114, AP000275, and AC006075.
HEOSI66	2223	850917	1 - 523	15 - 537	AA282451, AL1139796, 299396, AW392670, AW384394, AW372827, AL119457, AL119396, AL119324, AL119341, AL036924, AL037094, AL037077, AL036196, AL037082, AL036767, AL036733, AL036191, AC004798, A81671, AR060234, and AR066494.
HEOSJ50	2224	922825	1 - 199	15 - 213	
HEOSL01	2225	914874	1 - 537	15 - 551	
HEOSL08	2226	850951	1 - 971	15 - 985	R93538
HEOSL54	2227	926849	1 - 639	15 - 653	AC007444
HEOSN60	2228	841869	1 - 665	15 - 679	AC005393, and AC006133
HEOSO01	2229	855651	1 - 432	15 - 446	AC003663
HEOSP05	2230	928270	1 - 680	15 - 694	AL134528, AL134518, AL119363, AW372827, AL119439, U46341, AL119319, AL134524, AL119496, AL042965, AL119484, AL042970, AL134902, AL119443, AL134920, AL134533, U46346, AL134538, AL119391, AL119444, AL042850, AL119396, AL119320, AL119304, A81671, and AR066079.
HEOSP06	2231	933991	1 - 536	15 - 550	AA278249, AA482174, AA282390, AA488762, AA489734, AW392670, U46349, AL119319, AW372827, AW363220, AW384394, 299396, AL119483, AL119355, AL119363, AL119457, AL119324, AL119443, U46351, AL119484, AL119391, AL119341, AL119444, AL119497, U46346, U46350, U46341, U46347, AL119522, AL119335, AL119396, AL119439, AL037205, AL134518, AL042975, AL042984, AL134902, AL119418, U46345, AL142137, AL134538, AL119496, AL042614, AL119399, AL042965, AL134527, AL134536, AL134528, AL134524, AL043029, AL142134, AL042544, AL043011, AL043019, AL043033, AL042450, AL042542, AL043003, AL119464, AL042551, AR060234, A81671, AR066494, AR054110, AB026436, and

HEOSR54	2232	855615	1 - 434	15 - 448	AK069079.
HEOSS04	2233	926483	1 - 457	15 - 471	W65492, AC005393, AC006133, and AC005515.
HEOST23	2234	965916	1 - 753	15 - 767	W03011.
HFSAC03	2235	850146	1 - 552	15 - 566	AA341979, and T92688.
HFSAM43	2236	715700	1 - 162	15 - 176	AA342419.
HFSAG59	2237	572813	1 - 423	15 - 437	AA342556, and AC005158.
HFSAG59	2238	675922	1 - 264	15 - 278	AW020037, A1658843, AA342731, AA828039, A1400553, and A1010597.
HFSAX51	2239	572815	1 - 399	15 - 413	AA342635, and R37508.
HFSBF09	2240	573315	1 - 403	15 - 417	AA343192.
HFBGJ31	2241	504368	1 - 306	15 - 320	AA343240, AA343241, and AC007688.
HHEAA27	2242	575258	1 - 489	15 - 503	A1537538, Z83822, AC006285, and AC016025.
HHEAM44	2243	726856	1 - 596	15 - 610	AA489589, AB022537, and AL031228.
HHEAW46	2244	718120	1 - 572	15 - 586	AW262813, AW411169, R68959, and A1380261.
HHEBS24	2245	858417	1 - 306	15 - 320	
HHECK11	2246	924982	1 - 223	15 - 237	
HHECK33	2247	871375	1 - 232	15 - 246	
HHECM01	2248	916178	1 - 429	15 - 443	[31887, and 131888. AA586433, H81732, A1049701, H71738, AA878407, A1884861, A1002762, AA021139, AA320105, AA515929, A1564301, A1699049, F07564, R93854, AA074351, AA598608, AA857812, A1004740, AA721998, A1255004, A1255015, F25640, AA814719, AA351808, A1143653, AL042869, A1065043, AA736713, A1280574, A1251576, A1306232, AA326904, AA729373, A1583466, F16409, A1279417, AA468923, A1869786, AA326452, AA454504, AA846923, A1805261, AA128969, AW274191, A1246192, AA809125, AA811954, A1733647, A1904944, A1914713, A1880889, A1733662, A1590404, AA324088, AA218631, AW381823, A1865980, AA313133, AA326330, AA507526, A1282479, AA484892, AW190484, A1567391, AA584484, AW238712, A1289396, T49933, AA595656, AA492105, A1983047, N20173, AA374797, A1479068, F35097, W44359, AA720582, AW328331, AA503298, A1921491, AA405726, AA558404, AW166920, A1610737, AW128881, AA652059, AF003626, AC004999, AC002554, AC007193, AC006008, AC004975, AC005998, AC006530, AC005625, AF124730, AF165926, AP000066, AP000280, AC003964, Z95703, AC005697, AF024534, AP000039, AP000107, AL110502, Z73963, Z93023, Z98950, AL133494, AP000224, AP000086, AP000045, AP000113, AF053356, AC005003, Z84477, AC005412, AL049780, AC007055, AC005086, AL031277, AC006137, AC005237, AL133163, AC007680, AC009247, AC004236, AC009275, AP000314, AC004948, AP000194, AL031666, AL050308, AC007429, AL078581, U80017, AL132987, AC004782, AC005193, AC006130, Z82189, AC006538, AC004814, AP000153, AP000011, AC004020, AC002039, AC005839, AL049869, AB026899, AL031885, AC007536,

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HHECM66	2249	781893	1 - 375	15 - 389		H63677, and AL020907.
HHECO01	2250	915285	1 - 311	15 - 325		AF039241, T07305, AC004150, AF039691, AF132608, AF207748, and AF006602.
HHECR08	2251	959125	1 - 565	15 - 579		AF013928, AA480258, and AA493192.
HHECT58	2252	973110	1 - 430	15 - 444		
HHECT59	2253	858407	1 - 517	15 - 531		AW079676, and A1291307.
HHECT70	2254	753842	1 - 147	15 - 161		AA356150.
HHECX82	2255	915913	1 - 523	15 - 537		<p>AL042096, AL040576, AL040768, AL038532, AL046850, AL044201, AL044258, AL041577, AL043570, AL041459, AL043848, AL043814, AL038983, AL039316, AL043923, AL044064, AL042135, AL043845, AL040052, AL041374, AL046392, AL043627, AL041523, AL041730, AL040148, AL040082, AL044272, AL040329, AL040294, AL040090, AL040363, AL044187, AL044199, AL040458, AL045990, AL041635, AL044074, AL038838, AL045920, AL041602, AL043492, AL044165, AL043775, AL041752, AL040839, AL046442, AL043677, AL040745, AL045684, AL040617, AL040332, AL040255, AL040285, AL040342, AL040091, AL040128, AL040168, AL044037, AL044186, AL043467, AL040510, AL040625, AL045817, AL041142, AL041238, AL047183, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL039915, AL037435, AL043612, AL041197, AL043537, AL041186, AL044274, AL045753, AL040253, AL041131, AL039360, AL037727, AL040529, AL045857, AL041227, AL049018, AL045725, AL040553, AL038822, AL037436, AL041159,</p>

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HHEDB31	2256	697806	1 - 589	15 - 603	166482, 166485, AR027319, A47368, 107249, 166483, 166484, A91752, E03813, 166498, 166497, 166496, A91751, 166487, 166486, 119516, A06419, A21892, 119517, AR027318, 108776, AR008429, A23997, A83151, A68114, A95096, A63954, Y09813, A95106, A95105, AR027099, A63067, A51047, A63064, A21895, AR035975, AR035974, AR035977, AR035976, AR035978, A05160, A08030, A20502, AR003585, 163560, 163561, 163563, 125041, A76773, A22413, A320935, 156772, 195540, A63072, A89633, A89634, A58521, AR020969, AR051652, AR051651, and X07299
HHEDH57	2257	665762	1 - 655	15 - 669	T70593, AA484366, A1811076, AA658101, AA4532879, A1261932, A1371165, N55560, A1863180, A111171, AC005523, AC007193, AC004084, Z83840, Z98742, AL133245, AL049843, AC002116, AP000510, AL022396, AL021394, and AL096701
HHEDJ94	2258	906876	1 - 509	15 - 523	W19045, N57242, N41553, and AC000119
HHEDM03	2259	923908	1 - 448	15 - 462	R80434, AA531428, Z82215, and Z95114
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HHEDN93	2260	731067	1 - 360	15 - 374	AL279905, A1859460, and AA353599
HHEDQ53	2261	973320	1 - 59	15 - 73	
HHEDQ74	2262	463250	1 - 432	15 - 446	AA975530, A1376755, AA931603, AA830053, AA912944, AA926705, A1445635, and AA954467
HHEDP88	2263	878759	1 - 371	15 - 385	AA297299, A1909951, AA412438, AA150262, AA937163, AA757561, N32544, A1126496, AA872939, and R61273

HHEDR27	2264	791847	1 - 563	15 - 577	U63127.
HHEDW03	2265	923340	1 - 421	15 - 435	
HHEDW58	2266	735609	1 - 509	15 - 523	AL132712.
HHREC07	2267	952455	1 - 2410	15 - 2424	AW271777, AA418212, AW026172, AW080197, AW150080, Z99393, AW296033, A1738581, AA452203, AA418041, AA028164, AA035728, AW138718, AW027368, A1861850, A1149306, AA194725, AA845357, AA521457, AA394270, AW003395, A1961396, AA476994, A1815175, AA621790, AA292791, A1917710, A1580942, A1831206, A1422238, A1337202, A1684220, A1758685, A1769662, A1363149, A1372022, AA149978, A1459301, A1916905, AA426479, A1090412, A1333285, AA195566, AA477023, N26319, AA453007, W79139, N80051, W74464, N27382, W17034, A1536804, A1336594, H83596, A1524485, A1092161, AW087165, AW439123, AA829164, AW192237, AA765900, A1803792, A1253581, AW196349, AA160311, W07012, H96016, A1963237, A1915904, C16527, A1468579, AA379225, C16442, A1867613, T23879, AA918013, A1224581, A1224589, AA373431, AA639187, AW261888, AA894881, H43838, AA081258, AW088913, AW024050, D61727, H96017, AW160880, AW161522, AW161495, A1090929, N89775, Z99394, C21261, A1687157, A1620764, N39762, A1814820, AA354795, AA476912, A1624528, N79269, D25568, AF064257, D38517, and AC0004222.
HHREC61	2268	741280	1 - 262	15 - 276	AF200630, AF201372, and AL022313.
HHHEK88	2269	702337	1 - 522	15 - 536	A1261872, A1679138, A1434461, A1379427, A1679712, A1963616, N98728, A1823643, A1769963, AA555094, AW294343, AA398469, A1341436, A1640067, AA970537, A1682850, C01626, AA401874, A1985926, R71022, AA772273, W31010, AA705992, A1862548, T26896, and AF085849.
HHHEL47	2270	719825	1 - 535	15 - 549	A1703499, AA494263, A1002734, A1054352, A1273847, A1580250, A1253382, AA502991, AA728812, AA811208, AA834707, AA594072, AA654661, AA452325, AA484143, A1674840, A1922930, A1205009, A1002941, AA862243, AA579205, AA747540, AA776646, AW327624, AA515728, AA486559, AA442176, AW084246, R81017, AA436796, AA297538, AA582463, R62710, AL079734, AA984187, AA448897, AC007055, AL049780, AL133500, AC004765, AL031685, AC004466, Z83840, AC004099, AL031177, AL049610, AL121825, AC004682, AC007103, AC004655, AC006312, AC006543, AC006367, AC006137, AC007387, AC006544, AC004984, AC006531, AC005669, AL031428, AL031283, AL024498, AC006166, AC007214, AP000337, Z81364, AC006115, AL008633, Z99716, Z93783, AC005722, AC006365, AB023051, AC007225, AC006978, AL035420, AC003037, AP000961, AC007193, AP000512, AL031662, AC007842, AF011889, AB023048, AL034425, AP000511, Z97054, AC005190, AL034420, AC004217, Z84469, AC004552, U91322, AL035495, U91327, AC005146, AC002080, AL033525, AP000704, AL133445, AC003043, AL035697, AC005696, AP000513, AC009743, Z97630, AL121769, A1229041, U07563, AC008154, AC004605, AC002542, AC005682, AL009182, AC004685, AC007285, AP001052, AL133163, AL009174, AC005065, AC005212, U78027, AC007090, AC006271, AC003950, AC005701, AC005937, AC007707, AC007226, AC006538,

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HHEFB29	2271	690073	1 - 532	15 - 546	AW402864, AC005756, AL1096767, and AC000119.
HHEFB73	2272	947568	1 - 432	15 - 446	AL039087, AL037259, AA362688, AA362689, T29199, AA362690, A49045, I07209, AR067734, I07249, AR068508, AR068510, AR068509, A63954, I09267, I09270, I09268, I09269, A49701, I09252, I09251, A29109, A32111, AR068550, A23373, AR068551, A94038, A94061, AR035224, A94046, A94054, I58322, I58323, E01324, I08638, A27169, A27170, A39929, A83151, AR038307, AR038321, AR016495, I66495, I66496, I66497, I66498, I66499, A92077, AR067733, A93936, I91969, Z96177, E01619, E01239, E01561, A92081, A92080, A92077, AR067733, AR038306, AR029418, A92078, A92079, AR029417, AR038320, AR027319, A91752, A91751, A70359, AR067731, AR027318, AR054109, AR067732, AR038066, AR064436, AR051651, and AR051652.
HHEFK12	2273	966202	1 - 317	15 - 331	
HHEFL47	2274	973094	1 - 356	15 - 370	
HHEFZ58	2275	735615	1 - 366	15 - 380	AA010070, and A1870529.
HHEGA66	2276	969467	1 - 247	15 - 261	AL022318, and AL031846.
HHEHC74	2277	974406	1 - 725	15 - 739	
HHEHD94	2278	964103	1 - 306	15 - 320	
HHEHU73	2279	923895	1 - 432	15 - 446	AA314262, and Z84466.
HHEHW78	2280	973140	1 - 579	15 - 593	AC006468.
HHEHI19	2281	973230	1 - 512	15 - 526	
HHEIH30	2282	961974	1 - 536	15 - 550	AW277207, AW157157, A1816301, AW277157, AW156950, AA313026, AA152106, A1313177, AW163128, AW161415, A1382960, A1201561, AA773272, AA826520, A1267630, AW081919, AA731178, AA017675, AW390380, A1222064, AW390751, AF180920, AF159159, and AF030091.
HHEJY91	2283	974407	1 - 521	15 - 535	AA904211, AW304580, AA515728, AA833875, AA833896, AA526099, AA515351, A1733856,

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HHEKG10	2284	961957	1 - 399	15 - 413	
HHEKJ20	2285	918032	1 - 214	15 - 228	
HHEKJ27	2286	858384	1 - 478	15 - 492	
HHEKK06	2287	933849	1 - 459	15 - 473	
HHEKP61	2288	913413	1 - 1448	15 - 1462	AA679016, AW408019, AA251937, AW407984, AL623302, AL431307, AL431316, AW392670, AL432644, AW372827, AL791349, U46349, AL432653, AL431243, AW081103, AL432655, AL432654, AL432650, AL042433, AW384394, AL134536, AL432620, AL432661, AL431255, AL042551, Z99396, AL432677, AL431337, AL119401, AL432651, AL431230, AL431328, AL431310, AL431312, U46351, AL119355, U46345, AL492510, AL431347, AL119497, AL431358, AL039912, AL432657, AL431354, AL432649, AL432647, AL432675, AL119483, AL431247, AL432643, AL431248, AL431330, AL432662, AL432665, AL492519, AL431314, AL037205, AL035530, AR066494, AF019249, AB026436, AR060234, AR054110, Y17793, AS1671, and AF064854.
HHEKS33	2289	973233	1 - 449	15 - 463	AA338228, AA599423, AL289850, AL275183, AA584125, AL583291, AL571543, AL031293, AC005207, AL109758, AF111168, AL034402, AC005183, AC005348, AC005790, AC005229, AF134726, Z97630, AL049836, AL022316, AC004024, AC006487, AC016027, AP000503, AC016830, AB009667, Z83838, AL031228, AC005821, Z98743, AC005839, AF064860, AC004820, AC005291, AC005863, AL096706, AC004865, AC007324, AC007917, AC008101, AC004079, Z84483, AC008079, AF111167, AL021154, AP000098, AL034423, AL031311, AC005318, AC004000, AL022312, AD001502, AC005482, AC005399, AL022726, AC004020, AC007227, AL049764, AL031053, AL121754, AP000355, AC004805, and AC006536.
HHELD03	2290	868495	1 - 883	15 - 897	
HHELD11	2291	974419	1 - 172	15 - 186	
HHEMA34	2292	704035	1 - 354	15 - 368	H09835, and R61607.
HHEMA65	2293	719229	1 - 286	15 - 300	
HHEMD28	2294	858303	1 - 371	15 - 385	H66688.
HHEMK21	2295	670784	1 - 443	15 - 457	AA150780, AA341445, H65527, N28990, AA972976, AA359399, T55030, AA287792, AC009330, AC009542, AC003689, and AC003678.
HHEMN76	2296	752947	1 - 437	15 - 451	
HHEMO91	2297	790100	1 - 257	15 - 271	
HHEMQ56	2298	858289	1 - 363	15 - 377	AJ230802.
HHEMQ58	2299	952989	1 - 508	15 - 522	AL109748, and AL078614.

HHENC18	2300	666335	1 - 412	15 - 426	
HHEND28	2301	468911	1 - 500	15 - 514	AL109827.
HHEND45	2302	919630	1 - 338	15 - 352	
HHENE18	2303	806606	1 - 500	15 - 514	AC002390
HHENE38	2304	662972	1 - 432	15 - 446	
HHENE47	2305	720255	1 - 382	15 - 396	AC004585
HHENC31	2306	917904	1 - 622	15 - 636	AI266255, AI302710, AA505091, AI076214, H82739, N30416, AA758853, H83614, AI362648, N79746, T77931, AW013896, T77853, and AL031291.
HHENH93	2307	691023	1 - 377	15 - 391	AA595183, H29208, H29209, and AF102777.
HHENOS3	2308	709078	1 - 289	15 - 303	
HHENQ16	2309	661841	1 - 547	15 - 561	
HHENR11	2310	966906	1 - 936	15 - 950	
HHENR78	2311	773537	1 - 417	15 - 431	AW007450, AW021951, R56093, AI809818, AF118885, AC002468, AL109627, AC005004, AC005562, AC008273, AC005082, AL034555, AC004815, L44140, AC006023, AL133243, AC018633, AC006538, AL132712, AL080243, AC005839, AC007666, AC007041, AC006137, AL031983, AC007546, U85195, AC005703, AL132857, AC005488, AL009179, AC005563, AC005104, AC004019, AP000704, AC007738, AC005252, AL031595, AL008582, AC006077, AF043945, U07563, AL109963, AC007182, AP000295, AC006049, and AC008041.
HHENV38	2312	657383	1 - 401	15 - 415	AC005326, and AC004924.
HHENZ86	2313	670837	1 - 436	15 - 450	AI990739, AI927951, AI989475, AI990284, AI082831, AW295986, AI798629, AI380475, AA777280, AI350438, AI867928, AW194833, AI478440, and AI758120.
HHEOF20	2314	861457	1 - 347	15 - 361	T63737, and AC004755.
HHEOF58	2315	841978	1 - 483	15 - 497	
HHEOG17	2316	662948	1 - 342	15 - 356	
HHEOG67	2317	588154	1 - 326	15 - 340	
HHEOI18	2318	677891	1 - 381	15 - 395	AA4976063, AI689977, AI291003, AA379679, AI796762, AA889834, AA147542, AA383327, AI857560, AA234045, R81076, AI924779, AA826483, AI368773, AI190557, AI689857, AI041119, AI703295, AI802472, AA349132, R25344, R23959, AI360000, W60453, AI557581, and AF048977.
HHEOJ10	2319	911814	1 - 450	15 - 464	AW385142, AW375056, AW062951, W19655, and AA452790.
HHEOL59	2320	588168	1 - 519	15 - 533	
HHEOX60	2321	734311	1 - 400	15 - 414	
HHEOZ17	2322	793087	1 - 393	15 - 407	
HHEPD46	2323	718950	1 - 550	15 - 564	AI653678, T60029, N58301, AW162128, AI859744, AI273990, N73203, AA506744, R85174, AA366676, AI879951, AA653291, R32162, AW166824, AI018726, R93026, AA811150, AA577719, M77867, AA744993, H78281, AW189401, AA737523, AA642823, AA632565,

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HHEPD73	2324	966828	1 - 548	15 - 562	AW102944
HHEPF31	2325	858269	1 - 355	15 - 369	
HHEPG15	2326	659664	1 - 548	15 - 562	AF150253, AL743143, X85654, and AF161548
HHEPK28	2327	686489	1 - 342	15 - 356	
HHEPM73	2328	683270	1 - 414	15 - 428	AA505298
HHEPN44	2329	716494	1 - 928	15 - 942	RI0189, AP984168, AA583386, AW020198, AL042667, AL042670, AP171132, AL003469, AP15081, AL110670, AA324108, AW247338, AL612070, AA614254, AL611533, AA224889, AL044701, AL110787, AA904211, AL869995, AL828721, AL653999, AW082104, AA468505, AA182873, AA487209, AA644090, AP962030, AL349130, AA613624, AA557945, AA525331, AA640104, AA728954, AL792092, AL821056, AA493808, AW270385, AL732720, AA551519, AA232928, AA230025, AL653776, AL734119, AL114494, AL120282, AA640305, AA653139, AW020094, AW021015, AA259267, AL567676, AC005295, AC005067, AL035681, AL022316, AC003108, AC002351, Z99714, AC004019, AC005102, AC002554, AL031281, AC003041, AC005520, Z95115, AC006285, AC005632, AC005972, AF001549, D88268, AP000553, Z95116, AC004448, AL033527, AC005004, AC016025, AP000555, AC005529, AC007510, AL133448, AC004859, AC005280, AD000092, AP000501, L44140, AL009181, AC009498, AC005527, AL121658, AL023879, AC009247, Z93244, Z85986, AC004913, AC005228, AC005288, AL031311, AC004834, AC005081, AP000503, AC005250, AC005231, U89335, AL133246, AC005808, AP000263, AC004263, AL135960, AL131016, AL121655, AC004098, AC005670, AL022721, AC005089, AL050307, AP000104, AC007919, AF207550, US2112, AL049758, AC002347, AL008706, U07561, AC004601, AC002300, AC004000, AL121754, AC006965, AP000036, AF111169, AL049692, AC006511, Z97056, AP000133, AC005900, AC004526, AL003147, AL132992, AL035684, AC002310, AC006649, AP000691, AC005684, AC002091, AC005277, AL096791, AL031230, AL049757, AC007240, AL031289, AC005011, AF053356, AC006347, AP000688, AC005519, AL139054, Z95113, AC006372, AC005071, AF196779, AC004876, AC006006, AC005412, AP000116, AF134726, AC005409, AC005880, AL078581, AC004967, AC005015, AL034400, AL022326, AC005484, AC004962, AL121748, Z93241, AC004973, AC006468, AC005746, AC006014, AC007938, AC005006, AC004897, AP000511, AC005618, AC0094797, AL008718, AL121653, AC005488, AC007055, AC003109, AL022329, AC005300, AL133163, AL049636, AL109967, AC005924, Z73979, U95739, AC004929, AC005595, AC005933, AC004799, AC007676, AC002381, AC007390, AC006241, AC005535, AC006277, Z75407, U78027, AC004125, AC005856, Z94044, AL020993, AC005057, AC007536, AC005086, AF205588, AC002126, U47924, AL133353, AL031432, AP000696, AC007436, AC005694, AP000947, AC003956, AC005013, AC002544, AC005041, AL096677, AF109907, AL049835, AP000045, AP000113, AC008372, AL121595, AC003030, AC004765, AC004805, AL031602, AL035588, AL049694, AL034418, AL035422, AC007546, AC005940, AC004815, Z83840, AF015416, AC006064, AC002477, AC003042, AL109865.

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HHEPRI4	2330	869381	1 - 640	15 - 654	W86315, and AL674685
HHEPS91	2331	493744	1 - 552	15 - 566	<p>AA021393, F04252, AL133083, AL783911, AA557945, AA53216, D44672, AA773463, AL143051, AA602017, AL1355246, AA488746, AA828637, AL135559, AA676592, AA904275, AL249365, T52772, AA484892, AW419389, AA649642, AA828834, AA533176, AA180056, AA601356, AL13957, AA069389, AL281818, AW089950, AL627917, AL755336, AW277109, AA745524, AL21716, AA568314, N95817, AL1356440, AL620585, AA491423, AA355367, AA610433, AL635677, AL754293, AW028950, AL623764, AW104788, AL872503, AA579188, AL10584, AA744465, AA745470, AA744449, T47138, AL242502, AC004752, AC009275, AC007955, AC005229, AL049832, AC008009, AC005527, AC005529, AC002425, AC003108, AL031681, AC004019, AP000014, M13792, AC007386, Z99716, AC002543, AC007055, AL008582, Z83844, AC005180, AB020865, AC010205, AC004876, AC005409, AC000025, AC005510, AF001548, AC006312, AL049759, AL049869, AC007731, AF134726, AC007161, AL121603, AC005500, AC004984, AL121769, AL008718, AL121658, AC006449, AC005156, AC004655, AL033527, AL022320, AF019413, AP000212, AP000134, AC005089, Z98884, Z97196, AC005081, AC002456, AC007687, AL049776, AL117694, AF111168, AL133163, AL034417, AC005823, AC006511, AC005328, AC005971, AC009247, Z98304, AC000353, AC004067, AC007666, AC004796, AC006468, AC007376, AC008124, AC012627, AC005015, AC005899, AL021407, L78833, D87675, AC002432, AC006578, AC004859, AL021154, AC007216, AL035659, AC007688, AL031147, AL121653, AL031074, Z84469, AC007263, U80017, AL133245, AC002302, AP000509, AC004386, AL031295, AC004103, AC007546, AL135744, AP000030, AC002477, U91323, AP000501, AC000004, Z84467, AL050343, AC005722, AC002553, AC007367, AL096678, Z98257, AC008372, AL139054, AL022313, AF109907, AC007226, Z98751, AC002400, AP000141, AL049757, AC000052, AC006211, Z86090, AC005011, AL035249, AF205588, AC004895, AC007308, U91318, AC004253, AL022336, AC005962, AL031668, AC004821, AL096710, AL121655, AP000045, AC005519, AC006285, Z98949, AC007283, AC004106, Z93023, Z83822, AL024498, AL022238, AL034420, AL021395, AC005972, AC006536, AC004883, AC008040, AC007277, AC005041, AC007566, AC006538, AC005332, AC002350, U91322, AC005484, AC004832, AC006559, AL022721, AL031273, AC005209, AL009051, AP000553, U52112, AC005291, AC005531, AC005358, AL022719, AF064858, AP000555, AC006121, AC000003, AF001550, AC005696, AC016025, AC004622, AC006077, Z97183, AC006059, AC008015, AC005746, AC002991, AC002470, AC008079, AC005874, AF134471, AL133246, AC005037, AL035423, AC003043,</p>

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HHEPZ10	2332	963715	1 - 155		15 - 169	
HHEQB17	2333	918056	1 - 408		15 - 422	
HHEQB47	2334	841899	1 - 464		15 - 478	
HHEQG21	2335	934680	1 - 457		15 - 471	
HHEQG45	2336	717303	1 - 306		15 - 320	
HHEQG52	2337	956214	1 - 191		15 - 205	
HHEQG72	2338	922619	1 - 329		15 - 343	
HHEQG75	2339	766960	1 - 387		15 - 401	
HHEQGR6	2340	784752	1 - 375		15 - 389	Y17793
HHEQH63	2341	744596	1 - 386		15 - 400	
HHEQJ07	2342	952416	1 - 227		15 - 241	
HHEQJ11	2343	966293	1 - 408		15 - 422	T89011, and AL047171.
HHEQJ82	2344	728596	1 - 370		15 - 384	AA659367, and AA661891.
HHEQJ89	2345	786607	1 - 173		15 - 187	
HHEQK01	2346	871911	1 - 582		15 - 596	AA480782, and AF129078.
HHEQK36	2347	707926	1 - 445		15 - 459	
HHEQP38	2348	709076	1 - 394		15 - 408	Z98256.
HHEQP83	2349	780397	1 - 676		15 - 690	AA720645.
HHEQK47	2350	699160	1 - 428		15 - 442	AF104235.
HHEQS17	2351	662203	1 - 499		15 - 513	
HHEQU09	2352	755007	1 - 451		15 - 465	
HHEQV03	2353	923324	1 - 475		15 - 489	Z27104, AA947563, and AJ123214.
HHEQV39	2354	932851	1 - 873		15 - 887	AA355773, and AA355926.
HHEQX60	2355	915561	1 - 453		15 - 467	
HHEQY32	2356	698633	1 - 365		15 - 379	AA353703.
HHERA17	2357	858239	1 - 257		15 - 271	
HHERB03	2358	933271	1 - 422		15 - 436	AL041364, AA581202, H22202, AA573189, AI623423, AI859612, AA130055, AI298936, AA688189, AA926119, AL046322, H82057, AA301758, and AL049795.
HHERB04	2359	854112	1 - 1070		15 - 1084	AA102072, AI124666, AA136417, AF169548, and AC004099.

HHERN11	2360	966003	1 - 363	15 - 377	
HHERO39	2361	858238	1 - 426	15 - 440	
HHERO95	2362	928142	1 - 1324	15 - 1338	AI761092, AW088116, AI660060, AA460070, AI823894, AI377047, AA833746, AW022132, AI660032, AI573194, AA938309, AA741093, AW294514, AA856722, AA459978, AI635527, AA948449, AA767492, AA311065, AW183379, AI167213, AA621378, and AI133101.
HHERQ04	2363	925697	1 - 504	15 - 518	
HHERQ50	2364	858049	1 - 793	15 - 807	AA151636, AA478851, AI018742, AI335888, AI268195, AA479950, AI436179, AI268216, AA360626, AW362452, and AA021655.
HHERU77	2365	934167	1 - 473	15 - 487	AW276744.
HHERV38	2366	933142	1 - 440	15 - 454	
HHERX04	2367	925700	1 - 643	15 - 657	AA749124, AW024899, AI738779, AW298129, AI936218, AI472304, AI418577, AI309755, AI081335, AI809820, AA016255, AA054132, AI024619, AA905716, H21932, AA256702, N79804, N77846, N77838, AI874019, AA872041, and AC004895.
HHESF07	2368	952214	1 - 588	15 - 602	AI248073, AA235254, AI658612, and AA250935.
HHESG02	2369	918639	1 - 316	15 - 330	Z73495.
HHESH33	2370	893701	1 - 482	15 - 496	
HHESI92	2371	792431	1 - 241	15 - 255	
HHESJ03	2372	922998	1 - 569	15 - 583	
HHESK56	2373	779164	1 - 534	15 - 548	
HHESN02	2374	918634	1 - 390	15 - 404	AF085233, and AF169035.
HHESO94	2375	793390	1 - 607	15 - 621	AF150222, and AF161351.
HHESP87	2376	858224	1 - 671	15 - 685	AA598870.
HHEST60	2377	858220	1 - 300	15 - 314	AL023584.
HHESU02	2378	918668	1 - 490	15 - 504	AP000689, AC006312, Z84466, AL080243, AC005722, AF064861, Z83822, AF001549, AB026898, AL031311, Z84480, AL035681, AL096763, AC003071, AB003151, AC002310, AC005796, AC003101, AC005081, AC005049, AC004031, AP000499, Z82203, AL022336, AC004526, Z83847, and AC004448.
HHESU03	2379	923030	1 - 671	15 - 685	AI929353, AA310170, and AW401881.
HHESU54	2380	926341	1 - 412	15 - 426	
HHESU65	2381	783820	1 - 324	15 - 338	AA804825, AA113301, AW264764, AI580548, AA130859, AA581238, AI805438, T66032, AA533703, AA578089, AW265073, AI963514, AW274078, AA494038, AA984263, AA630834, AA601318, AA341817, R42117, AA811489, AW402458, R64204, AL138271, AA486106, AA708021, AA069589, AA470544, AA059369, AA339011, R43218, AI057350, AI354862, AA628627, AA857296, AA814527, H46593, AW327868, AA584513, R15075, AA810200, AL009029, AC008134, AC006965, Z97181, AC004104, AP000018, AC004791, AC005881, Z97055, Z85996, U91321, AC004167, AL034548, AL023284, AC005067, AC004895, AC006211,

HHESV46	2382	935074	1 - 511	15 - 525	<p>AC003042, AC008062, AC005620, AL021407, AL078472, AC002487, AL080245, AF038458, AF064858, Z83846, U52112, AC005184, AC007182, AF015720, AC005829, AC006050, AJ229041, AC007688, AC004752, AC004125, AC004934, AC003035, Z84814, AC005358, AL034417, Z98044, AC005598, AL109753, AL031665, AC006065, AC006120, AL009183, AL008729, Z93930, AC006454, AC005913, AC002300, AP000023, AC005666, AL133448, AP000511, U89337, AC005668, AC004381, AL008638, Z95115, AC005015, AL035457, AL096791, AL008720, AJ251973, AC004876, AC004938, Z83733, U95743, AC005736, AC004864, AC004887, AL049749, Z97353, AL022318, AL034549, AC004231, AC005102, AC003687, Z72006, AC004750, AC005820, AC006039, AC004816, AC004967, AF126403, AL035695, AL020995, AC010206, AC005177, AC005094, AC004806, AL117338, AC004962, AC008123, AC002302, AC007546, AC004991, AC003010, AC007993, AC005553, U07563, Z95114, AC007115, AL109984, AC006538, AC005224, AC005386, AP000216, AC004794, AC006040, AC016831, AC005295, AC007686, AC002351, AL034429, AB023054, AC007225, AC005220, AL031650, AC005831, AC007073, AC007157, AL096772, AP000265, AF015416, AC007773, Z82198, AL133445, AF130343, AC005808, AC005277, AC004663, AL049830, AL031767, AP000034, AP000101, AC009363, AC004659, AC005291, AC004584, AP000240, AC004693, AC006060, AC004551, AC005822, Z82189, AC004609, AC007193, AC007297, AL079342, AL109653, AP000208, AP000130, AC006162, AL031681, and AC002347.</p> <p>AA569179, AA299351, AI679759, AW238495, AJ246061, AI054090, AI620266, AI298079, AI185394, AA856866, AA434346, T08386, AI114494, AA582746, AA192293, AA657910, AA768179, T06292, AL039309, AL037856, AL042373, AA741301, AI251241, AA527109, AI630894, AI284543, AI254770, AI251944, W96277, AI251034, AI251203, AI251284, AW128881, AI590404, AI250552, R35259, AA020873, AA579399, H43183, AI479068, H16875, AW408767, H24957, AA502688, AA846923, D82321, F08214, T41134, AA744095, AA662614, F37201, AI249853, T05617, AW019964, AA736713, AI207728, AI285493, AA878407, AI223626, AW303098, AW341882, AI889579, AI345394, AA484892, AI445373, AI348780, AL038977, AI671077, AI143653, AL036909, AA654535, AA484298, AI973173, AA363957, AA020882, AI707744, AA687542, C17540, AI884861, AI636734, AI078409, AI110685, H90845, AA827383, AW079737, AI439676, AA353168, AW303822, AI421755, AI124779, F17537, AA295893, AA480486, AA295899, AA682536, AI863279, AA410771, AA831919, H63220, AA469230, AA757426, AA714073, AA564256, AI678476, H58891, AI281401, AI860535, T65895, AA507637, AL137946, AI927261, AA244181, AW151549, AI619994, AI821641, AC006360, AC005084, AL049856, AC007655, AC005234, Z73900, AL122020, AL035458, AL132668, AC005768, AL096791, AL132641, AC004996, AC006317, AC006236, AL117338, AL078612, AC004820, AF205588, Z92844, AC005998, Z78022, AC004054, AC006343, AC005996, U80017, AC005993, AL117337, AC004815, AL021368, AC004382, AL078477, AL033525, AC005879, AB017602, AF029308, AC005050, AC004974, D83253, AC007537, U91319, AP000106,</p>
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HHETA53	2383	858211	1 - 751	15 - 765	
HHETB42	2384	973127	1 - 218	15 - 232	
HHETC50	2385	927000	1 - 368	15 - 382	
HHETD13	2386	858218	1 - 634	15 - 648	
HHETE34	2387	974392	1 - 719	15 - 733	AA722372, AW440545, AI631119, AL038971, AL041706, AL046746, AA812281, AI110760, AA083046, T56253, AA410828, AW151713, N48230, AL048125, AA601157, AA633798, AW075511, AA359347, AA459749, AL135377, AL040382, AW245747, AA724333, AI963600, AW303196, AL119762, AI284640, AW301350, AI669615, AI963720, AI334443, AL119691, AL121235, AW274349, AW102811, AA564634, AI924251, AI791664, AW274346, AI270117, AI493236, AL046409, AI281881, AA503600, AW408707, AL037683, AL041690, AL038705, AA581903, AA478355, AA634889, AI956131, AW193265, AW021583, AI589230, N94311, AI368745, AI367371, AA584167, AI583283, AW238278, AL040921, AA580808, AA468022, AA579366, AI431303, AA806796, AW069625, AA623002, AA587604, AA507824, AW270270, AA491814, AW020992, AA372481, AA490183, AI732865, AA720702, AL046205, AI368256,

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HHETF07	2388	952218	1 - 321	15 - 335
HHETF94	2389	793420	1 - 424	15 - 438

HHETK07	2390	848748	1 - 1028	15 - 1042
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HHETM92	2391	790879	1 - 435	15 - 449	AL031846, L81761, AC005288, AC006132, AF038458, AP000359, AJ236701, AL033521, AF109907, AL049793, AC004150, AL121658, AC010183, U47924, AC005768, AL049869, AJ246093, AL109952, AC004896, AB007869, Z95152, AC002420, AL022156, AL031683, AC004534, AL024474, AC001478, AC005209, AC004797, I34294, AP000271, AP000032, AC003692, AC004195, AP000402, AC006468, AC005562, AC007993, AC006046, AL008726, AC008116, X60459, AC005901, AC005971, AC005776, AL096702, AC005527, Z79996, AC006312, AC003013, AL031588, AC004741, AC005355, AL008582, AP000510, AC000031, AP001065, AC004139, AJ011930, AB023048, AC006111, AL133353, AL021395, Z85987, AC002492, U73636, U96629, AL031427, Z82173, AC006487, AC007551, AL022316, AC007227, AP000031, AC004887, Z15025, AL096791, AL031597, AC011594, AC008134, AC002418, AC005214, AF047825, Z97056, AC004895, AC004491, AC006538, AP000509, AC005913, Z84480, Z54147, U53331, Z98752, AC005033, AC009247, AC005046, AL031005, AC004099, Z98052, AL031589, AC005187, AC000075, AC005529, AC004263, AC005318, AC004196, AC000381, AC004596, AC006026, AC000379, AC007384, AF196779, AL021939, and S42653. AC006270.
HHETQ54	2392	908567	1 - 713	15 - 727	AI885183, AA903775, AI554613, AI291522, AI916978, AW135652, AA393862, and X79828.
HHETR21	2393	936252	1 - 706	15 - 720	H25211, Z44055, AA452343, AA297470, AA366087, AA297673, AA135318, AW161368, A W402965, N46057, Z41875, R59956, A W005173, AA504590, H23102, AL042001, AL041998, and AI865194.
HHETR94	2394	793434	1 - 572	15 - 586	AC005158.
HHETS04	2395	926997	1 - 1022	15 - 1036	
HHETU20	2396	858206	1 - 456	15 - 470	AC007225, AC006449, and Z77249.
HHETV35	2397	784894	1 - 210	15 - 224	
HHETX01	2398	915284	1 - 322	15 - 336	AL035079.
HHETY79	2399	774171	1 - 366	15 - 380	AA310882.
HH EUA62	2400	965709	1 - 850	15 - 864	AA312734, W23120, AA976304, AA297895, H49170, R76772, R34930, AA356611, AA205378, AA281670, AA352713, AA662069, AA354224, AA521488, AA714210, AW167245, AA448152, D50918, AC004913, and AB023622.
HH EUC31	2401	795268	1 - 772	15 - 786	AA132827, and AI905590.
HH EUC84	2402	788954	1 - 675	15 - 689	AI624024, AA307816, and AB018268.
HH EUE01	2403	915274	1 - 203	15 - 217	
HH EUE86	2404	784879	1 - 719	15 - 733	
HH EUE89	2405	786254	1 - 326	15 - 340	R94055, and AL136295.
HH EUP02	2406	918655	1 - 605	15 - 619	AL042433, AL134920, AL134902, AL134524, U46341, AW372827, AL119341, AL134528, AL134518, AL134533, and AR054110.
HH EUT33	2407	952043	1 - 293	15 - 307	

HHEUY42	2408	918029	1 - 167	15 - 181	
HHEVJ06	2409	933921	1 - 251	15 - 265	AL560063, and AC005696.
HHEVL35	2410	965644	1 - 145	15 - 159	
HHEVN07	2411	952041	1 - 350	15 - 364	
HHEVR07	2412	952070	1 - 414	15 - 428	
HHEVS63	2413	973213	1 - 564	15 - 578	AL043039, AL043019, AW392670, AL119497, AL119401, AL043037, AL119457, AL043205, AL042978, AL042980, AL142132, AW372827, AL042544, AL119399, AL134902, AL043033, AL119355, AL042614, AL119341, AL119391, U46346, U46351, AW363220, AW384394, AL119439, U46349, AL134533, AL043029, AL119443, AL119396, AL134525, AL134524, AL042551, AL119319, AL134538, Z99396, AL119484, AL119324, U46350, U46347, AL119483, AL134536, AL119418, AL119363, AL043099, AL119444, AL043003, AR054110, AR066494, AB026436, AR1671, AR069079, and AR060234.
HHEVS95	2414	957950	1 - 393	15 - 407	
HHEVV64	2415	974520	1 - 630	15 - 644	AW084328, AA525807, AA578621, T51832, AW023111, AA219349, AA805795, F24745, AW265688, AL192440, AA654482, H60738, AL433131, AL446259, F30158, AA808982, AL613966, AA639282, AA668587, AA609826, AA621865, AW245354, AL049709, AL635440, AA584655, AP001053, AL049872, AC007371, U47924, AC005484, AF064861, Z83845, AL031291, AC003967, AC007283, AC002094, AC004686, AC007050, AC006443, AC005369, AC004257, AL109758, L78833, AC004832, Z98200, AC004460, AC005839, AL022721, AL022320, M87889, AL022318, AC006316, U73169, AC006211, AC004865, AC005088, AL024498, AC004890, AF031078, AC005081, AL109984, U96629, AF030876, AC005041, AC005588, AC005913, AC003108, AC008040, AC002128, AL121595, AC007314, AC006277, AC005971, AC005046, AF030453, AC004084, AC006088, AC004217, AL049869, AF043945, AC004750, AL031286, AC007637, AC004033, AC006501, AC005881, AL035587, AC005412, AC005288, AL034429, AC005348, AC006511, AC005568, AC005837, AL031282, AC018633, AC003101, AC003029, AC002544, AL008723, AC006115, U91326, AC006006, AC005015, AL135744, AC005666, Z85987, U91323, AC006275, Z82178, AL031588, AC006014, AC004517, AC005488, AC004813, AC007690, AC004771, AL021154, AC005049, AC005667, AP000476, AL109827, AL049776, AC007041, AL133245, AC007157, AC005399, AC002527, AL121603, AP000022, AC005180, AL031133, AC004134, AC007766, AC002477, AC004938, Z73417, AC005874, AF134471, AC006165, AC002369, AL031584, AF196779, AL121655, AC005089, Z95331, AC006530, AC005280, AC004673, AC005527, AC006026, AC004998, U63721, AL035659, Z93096, AC002990, AC004953, Z86090, AL109967, AC006538, AL133243, AC005722, AC002395, AC000025, AC005914, AC006512, AC007546, AL049539, AC004821, AL021453, AC004167, AC003043, AC007057, AL133445, AC005216, AC005003, AF095725, AL118497, AC004253, AC006312, AC005887, AL133289, AC004129, AC003007, AL021578, AL022316, AC002554, AL022302, U91322, AC004242, AC009248, AC004067, AL050348,

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HHEWE44	2416	973219	1 - 722	15 - 736	AL119444, AL119483, W011359, AL119418, AL134524, AC003037, AC007899, AL031681, AL021977, AL021707, AC005875, AC004967, AL034379, AC007216, U95742, AF109907, AL021453, AL034420, AC004000, AL034417, AL031432, AL022165, AC006287, AC005102, AC005746, AP000300, AC002059, and AC006468.
HHEWF40	2417	973234	1 - 799	15 - 813	AL119484, AL079683, AI612032, AA654627, AL043009, AA381163, F23259, AW265197, F19238, AW277102, M62268, AA768409, AI205126, AA558697, AI003743, TS1118, AA366820, AW074398, W60516, AA650244, AA515435, AA077817, AI204076, AA219009, AA626747, AI418164, AI635974, AI110770, F29989, AI561335, AA55602, AI284640, F36404, AA366035, F37223, AI961906, AI365988, AW023672, AW303876, AI610159, AI471481, AI061334, F24284, AI053672, H40538, H64560, AA680299, AA749364, F36273, AI792108, AA578141, AI287528, AI334443, AI358229, AI358343, AA350859, AI350211, AI435544, AI433187, AA317170, F37169, AI287284, F34511, T29360, AI963786, AW088058, AI345459, AI264743, AW339687, F28576, AA559290, AI336660, T16592, AA342901, AI053786, AA831388, AI569086, AI924251, AI46464, AA659083, AI635272, AA714595, W56200, AW406755, AA654968, AW193432, AA133986, AI249997, H73081, N71724, AI305547, AI144330, AW339568, AI138265, AW193265, AL041368, AA664535, AI887483, AW248523, AA341228, F32804, F35659, AI431303, AA542991, AI688846, AA340003, AW338869, AW008317, AI079910, AI423103, AW264973, AW407340, AA308806, AA491814, AA095511, AW406447, AI349874, AI359285, AA977743, AW022046, AA434484, AL046409, AI281903, AW419262, AW439558, AA916039, AI912322, AI914706, AL119691, T40338, AI125139, AI536555, F31799, AI963720, AA919037, AW406162, AA652057, AI246409, AI872421, AA484148, AA649642, AI341664, AL079645, AW269639, N71930, AA362700, AL120295, AI499094, AI557323, AA299115, H71429, AW248803, F35113, AI565245, AW069807, AI343137, AI951928, AA451612, AI148446, AW275674, AL138455, AA775230, AA483034, H16048, AI038279, AI017024, AI613280, AA663306, AI493546, AI064864, AW276827, H64777, AI251002, AL042856, AA252763, AI951889, AI929531, AA610491, Z98473, AW249224, AA714453, AI299050, AI344844, AI471543, AA557686, AA344161, W07122, AI830390, AI037914, AA557879, AL038785, F32705, R72458, AA134367, AI761471, AA299601, AI648558, AI340453, AW080134,

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HHEWL08	2418	957946	1 - 565	15 - 579	<p>AW103406, AI445934, AI653515, AI199816, AA904211, H73550, N55515, AA126005, AI247101, AI049676, AI049630, AA856961, AI278847, AI082353, Z97181, AC007371, AC007934, AC006238, AC004531, AL034402, AC005190, AL022316, AC005484, Z94721, AC004491, AF003626, AC009509, AL031277, AC004941, AC006130, AL022336, AC008041, AC005667, AL121892, AL078644, AL049872, AC005921, AC005820, AF030453, AC005015, AC005088, AC005826, AC007277, AC007308, U62317, AC005924, AL022165, AC005668, AC004664, AC004687, AL049869, AL021977, Z97054, AL022163, AL031733, AC012085, AL035458, AC004593, AC007684, AC007012, AC002112, AC004019, AL049709, AL135783,</p>

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HHEWT52	2419	858116	1 - 296	15 - 310	AA457754, F29968, AA525753, AL1718323, AL189230, AL1860423, AL1696955, AA581463, T71936, AA847704, H56721, AL345146, M77974, AL634601, AL439525, AA136897, T40612, H54340, F17312, AA460367, F30933, AL345566, AW272758, AW243817, AA230025, AL610012, AA468371, AL1609974, AC006312, AC002476, AL022326, AP000036, AC006441, AC005013, AC004929, AC002347, AC005914, AF196971, AP000010, U93037, AC007731, AC005049, AC005015, AC006449, AC005500, AF139813, AC004228, AF002991, AC005081, U07000, AL022163, AC007845, AP000689, AL096791, AC016025, AC006930, AC005620, AP000501, AC006538, AC006285, AC006064, AC005859, AC005520, AC006241, AC007435, AC004216, AL049869, AL031277, AC007688, AL035423, AL022302, AC007298, AC005565, AL031427, AL133448, AC004032, AL133246, AC007542, AB003151, AL109628, Z93930, AC005667, AL121658, AC007546, AL049830, AL021918, AC007376, AL031670, AC006251, AC003982, AC002300, AC004991, AL121603, AC007263, AC002312, AC007773, AC005089, AC007690, AL033521, AL021391, AL049757, AC006057, AL008710, AC004678, AP000030, AC004671, AC004827, AC008372, AL009181, AC004973, AC005102, AC004675, AL079340, AL031054, AP000049, U80017, Z99716, AC004003, AC006023, AC006211, AL121655, AC015853, AF088219, AC006511, AC005529, AC002511, AC005562, AC006013, U52112, AC002344, AP000311, AC006262, AL121653, AC004703, AC007050, AC003689, AP000045, AC008044,

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HHEWU52	2420	935243	1 - 370	15 - 384		
HHEWU93	2421	973141	1 - 499	15 - 513		
HHEWY63	2422	858114	1 - 402	15 - 416		
HHEXD07	2423	951983	1 - 386	15 - 400		T90576.
HHEXK51	2424	932911	1 - 441	15 - 455		AA380899.
HHEXX06	2425	933858	1 - 267	15 - 281		
HHEXY05	2426	920532	1 - 694	15 - 708		
HHEYG35	2427	878225	1 - 509	15 - 523		AC003007, and AC005632.
HHEYK30	2428	961960	1 - 481	15 - 495		AW250651, AA205472, AA100098, AW250529, AA852703, AI215935, AA099468, AA502996, R55448, and AL050348.
HHEYK73	2429	847483	1 - 543	15 - 557		AP000553, and AC009516.
HHEYP70	2430	861923	1 - 461	15 - 475		AL040191, AI681518, AI692511, AA126434, W73242, AI741041, AA149414, AI796147, AI382171, AA716512, AA453874, AW406167, AI651251, AI189326, AW300691, AI087946, AI750752, AA678239, AI880169, AI670131, AA527704, AA489320, N41477, AA406606, AI298196, AI189518, N24031, AW193326, AI768820, AA431845, AW072591, AA768764, H40910, AA994953, AI651230, AI767999, AI831533, AW405466, AA577527, AA621254, AA595649, AA777665, AI039523, AA831340, AA676861, AA761298, AI278796, AI633506, C75076, AW440729, AI274990, T74612, AI274989, AI204199, AA027230, AA046211, AI499039, AI698691, AA513167, AI769276, AI247923, AA730209, AA431442, H51604, R73370, H40951, AA714946, AA889500, AW207415, AI868412, AW023485, AW080541, AW089033, AI143409, AA113933, AA149300, AI214812, W73297, R85535, AA347274, AI264766, H44524, AA773391, AB002368, and AC003010.
HHEYQ78	2431	963321	1 - 297	15 - 311		AB002390.
HHEYV03	2432	922104	1 - 459	15 - 473		N43748.
HHEYZ12	2433	968939	1 - 228	15 - 242		
HHEZA83	2434	973236	1 - 792	15 - 806		AW392670, AL119457, AL043033, AL119355, AL134542, AL119483, U46349, AL134538, AL119319, Z99396, U46351, AL119363, AL119324, AW372827, U46346, AW363220, U46350, U46347, AW384394, AL119443, AL119439, AL119484, AL119391, AL119444, AL119497,

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HHEZJ38	2435	860048	1 - 510	15 - 524	W26290.
HHEZP45	2436	952047	1 - 187	15 - 201	Z73359.
HHEZP54	2437	952367	1 - 798	15 - 812	A1806206.
HHFHP14	2438	960049	1 - 805	15 - 819	AA381084, AA381071, and AA380862.
HILAA18	2439	657314	1 - 579	15 - 593	AA352037.
HILBD61	2440	504130	1 - 516	15 - 530	AA352188.
HILCD94	2441	887182	1 - 809	15 - 823	A1823665, A1680854, AA723790, AW195801, AW137032, AW439945, AI924857, AA687329, AA743184, AA764896, W93389, and AA353212.
HJAAH06	2442	960647	1 - 631	15 - 645	AW163254, AA314521, AA354171, AA361131, AA337563, AA354364, AA330348, and AF113538.
HJAAM73	2443	530476	1 - 451	15 - 465	AA354447, AI909885, AI940079, AI909850, and AI909873.
HJAA723	2444	530472	1 - 436	15 - 450	AA354714, W86159, and A1440432.
HJAAU52	2445	530473	1 - 541	15 - 555	AA169182, AA354783, AA852481, AB028893, Z64482, and Z64483.
HJAAU57	2446	661275	1 - 293	15 - 307	AA354792, AA354785, H67171, AA309969, R91175, AA502207, A1743721, R76258, AC004762, AC006511, AC005747, AC004821, AC000386, AC003101, AL031259, AC004382, AC007040, AL109798, Z85987, AC004843, Z99128, U73167, U90094, AP000300, AL031848, AC007055, AC005546, AP000045, AP000113, AL035587, AF205588, AP000962, AC002306, Z84469, AC004791, and AL049591.
HJAAV29	2447	669278	1 - 300	15 - 314	AA354798.
HJAAV82	2448	738993	1 - 669	15 - 683	H38110, AA354829, and AA242784.
HJAAW39	2449	530468	1 - 417	15 - 431	AA354854.
HJAAW48	2450	530641	1 - 391	15 - 405	AA354890, F00006, AA629836, A1446336, AC005288, AC002418, AL035405, AC003684, AL049631, AC006088, AC003800, AC004814, AL133445, AC000353, AC004386, AP000493, AC004966, AC004883, AL021154, AC004813, AL034417, AC003098, AL022476, AC006449, AC006511, AC006312, AL034429, AC005229, AC004491, AC007774, AL050307, AC006501, AF111168, Z98742, Z98036, AF190465, AC006538, AC004699, AC006026, AL096701, AC004967, AF053356, AC008115, Z99716, AL050318, AC005696, AC004821, AC004812, Z98051, and Z68756.
HJABB37	2451	530467	1 - 421	15 - 435	AA355113, AW068073, AA425026, and AA157625.
HJABC27	2452	669059	1 - 367	15 - 381	AA355129, AA287703, R05710, T83234, AB023172, and AF143869.
HJABH14	2453	530463	1 - 310	15 - 324	AA310688, and AA355321.

HJABJ06	2454	954589	1 - 475	15 - 489	AA309609, and AL023806.
HJABP04	2455	925557	1 - 493	15 - 507	AA309924.
HJABV44	2456	871824	1 - 556	15 - 570	AA310251, AA831350, AA302870, AA811673, A1076729, H67854, AA601376, C14014, AT869406, A1133355, Z93241, AC007308, AC006162, AP000500, AC007160, AC006115, L78833, AL049793, AC005081, AC006011, AL034548, Z97056, AC005224, AC006121, AL050318, AC004150, AL022311, AC005015, AC005632, AP000503, AC006021, AP000356, AL050312, AC005562, AC004099, AF165926, AC006211, AC002044, AL031311, AC005971, AC008012, AL031255, AC002470, AC007283, AC004106, AC004757, AC001228, AP000692, AP000133, AP000211, AP000030, AC005726, AL049829, AF196971, AC005529, AP000252, AC005305, AC002115, AC006487, AL020997, AF001548, U95090, Z93016, AL049694, Z97054, AC004686, AC005800, AC005902, AL031390, AL031297, AC006111, AP000251, AC004087, AF053356, AL049757, Z94801, AC007227, Z83844, AL096701, AL021391, AF205588, AC010077, AB023049, Z93023, AC004655, AC004882, AC005874, AF134471, AL031767, AL109914, AL109839, AC007350, AL031668, AF055066, AF134726, AC002306, Z94056, AC001052, AC004659, AC004966, Z83838, AC004685, Z97989, AC005822, AC005755, U62293, Z98200, AC005722, AC004156, Z99570, AB020871, AC007664, AC007537, AC004148, Z98048, AC008018, AC007021, AL109984, AL022238, AC005049, Z83732, AC004983, AC006449, AC005538, AC007193, AP000311, AC002347, AC007057, AL133448, AL031281, Z92542, AC005057, AP000049, AL022323, AC005962, AC004910, AC006014, AL022316, AC004816, AC005011, AC004699, AC005180, AC007934, AL024507, AF030453, AC004998, AF003529, AL139054, U62317, AF037338, AC009247, AB020870, AL096791, AC005911, AF196779, AC005484, AC007684, AC004797, AL031778, AB023048, AC003110, AL031597, AL035695, AL008734, and AP000088.
HJABV57	2457	839528	1 - 661	15 - 675	AA310405, A30438, I25947, U46128, L40401, AR040601, and AJ133038.
HJABW28	2458	958721	1 - 368	15 - 382	AA310349, H63791, H63751, AA488739, AC004236, AC004466, and AA249375.
HJABX33	2459	966611	1 - 425	15 - 439	H64513, and AA310354.
HJABY68	2460	861548	1 - 483	15 - 497	AA310646, AA354853, AW405591, AW402676, N76224, N42680, and AI290663.
HJABZ52	2461	857454	1 - 438	15 - 452	AA310693, H83593, AA236501, AF150367, AL035563, Z61190, Z60182, and AF161557.
HJACB80	2462	746411	1 - 545	15 - 559	AI094227, W92159, AA825437, R02713, AW205546, T86217, AA885954, W86575, AA904189, W86709, F17491, AA310834, and AC008014.
HJACC59	2463	534867	1 - 505	15 - 519	AA310936, AA355111, W79349, D81026, C15076, C14389, AW377671, D80522, D59467, D80164, D59502, D81030, D80166, D80193, D80195, D80391, D59787, D59627, D80133, D59275, D80038, D80022, D80212, D59619, D80210, D80240, D50979, D80196, D51213, D80227, AA305409, D80219, D58283, D51022, D59859, C14331, AW384820, D50995, AW384832, D51423, D51799, D80253, D80251, D80043, D80045, AA305578, D51060, D80269, AA309971, D80248, C06015, D80258, D80188, D59927, D59610, D57483, D80378, D80366, T03269, D80268, AW178986, D59889, D80024, AA514188, D80439, AW177440, T11417,

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HJACC67	2464	518222	1 - 343	15 - 357	AA309853, C14014, D59859, D59889, C15076, D51423, D80253, D59467, H67854, D80166, D80212, D51799, D59619, D80210, D80240, D57483, D80164, D80024, D58283, D80188, D80195, D59275, D80219, D81030, D80391, D80043, D80227, D59502, D80366, D80196, D80022, D59927, D59610, D80038, D80269, D80193, AA305409, D59787, C14331, D50979, C14429, D50995, D80241, C14389, T03269, D80378, D80045, D51060, C75259, D80134, AW377671, AW178893, A1913895, D80268, AW378532, A114875, D80251, D52291, AW369651, D51022, AW178775, D51250, D58253, W89152, D59695, D80949, F13647, AW179328, C14298, AW352158, D80064, D51079, AW177440, Z21582, AA305578, D80168, D81026, D80248, AA594198, C14407, AW378540, D80522, AW178762, AA745570, AA514188, AW177501, AW177511, AW352117, AA514186, D80133, AW360811, A1905856, D51097, H67866, AW375405, AW360844, D80132, R84431, D88547, A62298, A84916, A62300, AJ132110, AR018138, X67155, Y17188, A67220, D89785, A78862, D26022, A25909, D34614, AL049795, AF181897, AF068862, AC004612, AF049895, AC002070, I82448, AR008278, AF058696, AC004922, AC002350, AR025207, AL022319, AC004477, X82626, AL021026,

HJACE47	2465	589114	1 - 298	15 - 312	AP028859, AC007790, AC007227, AC005912, U95739, AB004907, U91319, AC006077, AC000004, AL121852, AC004253, and AC006026.
HJACE79	2466	666768	1 - 461	15 - 475	AA311100, and AA355655.
					AA311091, AA354762, D58283, D80043, D80268, C14389, D80188, D57483, D80022, D80166, D80253, D80195, D80391, D51423, D59619, D81030, D59859, D80210, D51799, D80240, D80196, D80212, D80227, D50979, D59502, D59927, D80219, D59275, D50995, D59889, D80038, D80193, D80269, D59787, D59610, D80366, D51060, D80024, D80164, D80241, D80522, D59467, D80378, C15076, D80045, D81026, AW177440, AW177501, AW177511, C14014, AW377671, AA305578, C14331, AW352117, AA514188, AA514186, AA305409, D51022, D80248, T03269, AW178893, AW352120, D80247, AW360811, D80251, D80133, AW179328, T03116, D58253, AW375405, AW360844, AW378532, AW178906, AW179024, AW177505, AW178775, D80132, AW366296, D51213, AW360817, D51250, D80302, AW375406, T11417, AW352158, AW378534, AW352171, AW178762, AW179332, AW377672, AW377676, AW179023, AW178905, D80439, D80134, F13647, AW178754, AW177731, AW352170, AW360841, AW179020, AW178909, AW177456, D52291, AW178907, AW179019, AW179018, AW178971, AW179004, D51079, D59627, D80168, AW178781, AW179017, D80014, AW178980, AW179329, C14227, AW179012, AW352174, D81111, AW177733, AW378528, AW178908, D51103, AW367967, C06015, D80157, AW178774, AW378540, Z21582, AW178983, D51759, C14407, AW179009, AW178914, AW378543, AW378525, C14298, D80064, AI905856, AW352163, AW178911, AW177728, T48593, D58246, D59503, AA285331, AA809122, T02974, AW360834, AW178986, D58101, D45260, D80258, AW177734, C03092, H67866, AW367950, AI525923, AI557751, AW369651, H67854, D60010, AW378533, AW378539, D51097, D59474, C14344, D45273, D51231, AI525917, D59317, AW179013, AW178759, C14973, T03048, AI525227, D51221, C14046, AI525920, AA514184, AI557774, AI535961, AI535686, C16955, H67858, D59551, Z33452, Z30160, AI525912, AI525235, AI525242, AW378542, AI525925, AI525927, AI525215, C05763, AL031005, A62300, AI132110, A84916, A62298, AR018138, AB028859, AF058696, AR008278, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, A82595, D88547, A94995, AB002449, AR060385, X82626, AR016808, AR008443, AR025207, I50126, I50132, I50128, I50133, AR060138, AR066488, AR016514, A45456, A26615, AR052274, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I18367, AR054175, A30438, X68127, I14842, AB012117, D50010, Y17187, A63261, A70867, AR008277, AR008281, AR008408, A85396, D88507, AR066482, A44171, AR062872, A85477, AR016691, AR016690, U46128, I19525, A86792, X93549, D13509, A64136, A68321, AR060133, I79511, AF123263, and AR008382.
HJACF14	2467	659329	1 - 635	15 - 649	AA311125.
HJACF47	2468	507156	1 - 910	15 - 924	W94499, AA311178, AA568770, AI376314, and AL117328.
HJACH86	2469	784634	1 - 258	15 - 272	AA311347, and AC002310.

HJADD60	2470	708664	1 - 321	15 - 335	AA713522, AA687156, AA459001, AA250811, and Z98946.
HJBAR01	2471	961088	1 - 292	15 - 306	AA355427.
HJBAD34	2472	508225	1 - 121	15 - 135	AA355455, AA355516, and AC005156.
HJBAG75	2473	523069	1 - 266	15 - 280	AA355499.
HJBAT26	2474	522697	1 - 269	15 - 283	AA356012, A1969579, AA913841, AA846697, A1224479, AA505890, A1360528, and AA765212.
HJBAX43	2475	929793	1 - 290	15 - 304	AA356074, and AC000065.
HJBBD13	2476	765075	1 - 198	15 - 212	AA356340.
HJBCEP53	2477	574259	1 - 414	15 - 428	AA306860, AA312440, A1478642, D59627, D80168, D59695, D52291, T03048, D45273, D51213, C16955, C15076, D59275, C14298, AA305578, D80251, D80949, D51799, D51079, D80269, D57483, D59467, D80227, D80366, D59889, D80253, D81030, D80164, D59979, D59610, D80024, D80212, D80195, D80196, D80188, D80219, D59502, C14331, C14407, D80045, D50995, AW360780, D58283, D51022, D59859, D80022, AA305409, D80166, D51423, D59619, D80210, D80391, D80240, D80043, D59787, D80064, D80038, D80378, D81026, D80241, D80193, D59927, D80228, C14227, AA514188, D81111, Z33452, D80258, D59503, D80014, D58246, D58101, D80133, A1535686, D51060, A1557774, D80248, T11417, AW377669, D52059, T02974, F13647, C14014, D80522, Z21582, Z30160, C06015, C14077, AA514186, AW377661, H67854, H67866, D59551, D80268, A1525216, A1525228, N66429, A1557751, D60214, D80302, AA809122, A1525969, D59317, C14344, D80439, C03092, D80157, C13958, C14973, D59474, T03116, D80247, C04682, T02868, A1525978, D51103, AA514184, A1525238, D51759, D51221, A1525242, A1525903, A1525923, C14002, A1525920, H67858, D31458, A1525227, D45260, C05763, A1525237, A1525235, A1525912, A1525215, A1535961, AA305720, A1525917, AC003682, A132110, A84916, AR016808, AB028859, X64588, A62300, A62298, AR018138, AR008278, AB010386, AF058696, I79511, AR060385, AB019242, U37689, I81198, AB002449, I14842, A82595, A47134, AR054175, AR008277, AR008281, AR060382, and Z82022.
HJBDDB28	2478	839067	1 - 199	15 - 213	AA306009.
HJBDSG57	2479	750669	1 - 454	15 - 468	AA306410, AW245824, AA313296, AA306336, AW245551, AA304936, A1525315, AA355857, AA382974, AA313343, AA158977, AA360010, AA158998, AA312340, AA341482, AW403283, AA355541, AJ010058, Y18418, AF099084, AF070735, AB012122, AF100694, AB001581, and AB002406.
HJBDDL14	2480	960109	1 - 565	15 - 579	AA306649, N76633, Z40822, and Z97989.
HJJSB86	2481	523007	1 - 336	15 - 350	
HJPAH35	2482	509162	1 - 312	15 - 326	AA356898.
HJPAT51	2483	730875	1 - 335	15 - 349	Z25932, and Z25922.
HKBAC12	2484	857298	1 - 743	15 - 757	A1940546, A1859744, A1459866, A1671077, AW236342, AA372106, AW265654, AA024517, AW440976, F23274, F34826, AW406162, F34511, AA614010, A1291124, A1079869, AA634855,

AI291268, N54179, AA025083, AI537030, AA663482, AA501600, F33121, AA626678, AA834799, AW188484, AA127486, AA318652, AI205126, AA327572, AI282310, AI886365, AL041706, AA666059, AA054106, AA077817, W32993, AA515224, AA715606, AA987962, AA593060, AI301273, H64777, AI287485, T40077, AA347927, W47444, AA654322, AA381747, AA570416, AI341548, AI039451, N43757, AI133164, H43183, H39611, AA528441, AA180964, AA215929, H04867, AI190960, AI718446, AI815583, AA565700, AI678392, AA586655, AI110770, AA347930, AA450199, AL041368, AA641103, AI816537, AI339440, AI282832, AA351845, AA504951, AI021649, AI635274, AA723017, AI138065, AW028353, AI376100, D29019, AA745410, AI049649, AI865905, AI921296, AW029038, AA177061, AA507991, AA243959, AW368401, AA359958, AI824562, F36273, AI821722, AW074059, AA533408, AI962050, AI356904, AI732162, AI564284, AI499094, AI802526, AI873916, AI821172, AI982634, AI370475, AI049722, U34879, AF207550, AC005071, AC006241, AI035071, AC004659, U91326, AP000255, AC007057, Z99943, AL049872, Z85987, AC005358, Z93017, AL049793, AC004815, AC006557, AL008629, AP000213, AL022326, Z83822, AP000135, AC007191, AL031428, AC004106, AD000092, AI021937, AP000031, AI1049757, AC004922, AC002404, AF010238, AL033518, AC009247, Z54334, AC006111, AC005037, AC005041, AC005144, AL049776, AC005932, AL022238, AL022163, Z92542, AC007263, AC004526, AC005520, D87012, AC004834, AL031662, AI023284, AC002543, AC006571, Y11107, AL035072, AC005066, AL009181, AL035405, AC005695, AC003101, AC004825, AC004151, AC006130, AL049636, AC005940, AL031668, AC007055, AC004941, AP000553, AC002350, AC005328, AC005988, AC004801, U47924, AC005542, AC005789, AC008040, AC005527, AL022302, AC005696, AC002310, AC016025, AC005564, AF196970, AC002455, AC005565, AC005049, AC006965, AL050338, AC005759, Z93930, AL078581, Z84721, AC003043, AL034553, AC005666, AC007226, AC005193, AC004821, AC005529, AC007666, AC002096, AL022158, AP000517, Z93241, AC005944, AF002993, AC005740, AC002073, AC000353, AC002431, AP000555, AC004224, AC004802, AC004647, AC004841, AL133382, AP001054, AP000504, AP000275, AC006026, AC006050, AC002425, AL132987, AL023575, AL049869, L05367, AC004996, AC006285, AC004915, AL031295, AL133297, AC005261, AL021154, AL034429, AB008681, AP000134, AP000212, AP000030, AC004771, AL035422, AC005225, AL022313, AL035587, D88268, AC005015, AP000350, AC000003, AC004777, AB023054, AP000105, AP000037, AP000045, AP000113, AF165926, L39891, AF095901, AC004638, AL008715, AC006942, AC005412, U95742, AC007421, AF108083, AL021707, AC005081, AL031846, AL096701, AC005153, AC006597, AP000349, AC004671, AL133448, AC005089, AC005682, AP000556, AC007151, AC005899, AF196971, AF118808, AC007216, AC004531, Z83836, AP000509, AC004890, AC005764, Z95116, Z69651, AC006048, AC006064, AC005353, AL031848, AL035420, AC005874, AF134471, AC007436, U91321, AC006538, AC002115, AC009946, AL035423, Z97989, AL109627, Z82211, Z98883, AF181896, D16561,					
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HKBAQ43	2485	934251	1 - 44	15 - 58	
HKRAT27	2486	963724	1 - 766	15 - 780	T07417.
HLADA25	2487	791845	1 - 428	15 - 442	
HLADA89	2488	786490	1 - 471	15 - 485	AA159634.
HLADB78	2489	760896	1 - 374	15 - 388	AA259081, and AA256010.
HLEAO21	2490	531287	1 - 95	15 - 109	
HLEDB91	2491	787578	1 - 109	15 - 123	
HLKDB22	2492	766876	1 - 837	15 - 851	AA701968, AI038071, AI913968, AA478730, AA479434, and AC000123.
HLKDC49	2493	722400	1 - 783	15 - 797	AA127898, and AA127851.
HLLCD11	2494	967337	1 - 322	15 - 336	
HLMAC43	2495	799766	1 - 368	15 - 382	
HLMAE45	2496	783886	1 - 309	15 - 323	
HLMAE62	2497	796676	1 - 163	15 - 177	N71728.
HLMAE83	2498	530107	1 - 297	15 - 311	
HLMAH45	2499	954125	1 - 532	15 - 546	H04096, H04118, AI085270, AI348611, H03415, H03398, H87153, AI184354, and AW382616.
HLMAH60	2500	856858	1 - 108	15 - 122	
HLMAJ54	2501	811183	1 - 362	15 - 376	AI972605, AI825634, AA291745, AA281084, AA836598, AI301258, AW207800, AI468330, AI559377, AI423842, AW138405, AA398529, AA428226, AW137882, AW149488, AI277002, AW135764, AI630822, AI802000, AW027943, AA746502, AI479965, AW207230, AI436232, AI299005, AI992316, AI277010, AI805270, AI819704, AA477763, AI333133, AI091828, AI018332, AI369454, N95248, AW134617, AI017173, AA535795, AW274817, AW137677, AW203971, AA293668, AW140143, AI970870, AW184019, AA526926, AA831623, AI589653, AA745853, AI670914, AI468159, AI221290, AA304437, AW139897, H97046, AA724268, AI247557, AA737067, AA293000, AA706959, N78408, AF007887, and AC007041.
HLMAJ84	2502	615300	1 - 296	15 - 310	
HLMAN25	2503	677519	1 - 153	15 - 167	
HLMAU11	2504	954571	1 - 286	15 - 300	
HLMAU43	2505	856884	1 - 136	15 - 150	
HLMAU70	2506	732665	1 - 388	15 - 402	
HLMAV62	2507	671905	1 - 126	15 - 140	AC002073.
HLMAZ06	2508	960557	1 - 428	15 - 442	AA262581, H77920, AI479768, AA810033, AI440530, AA584862, CI5362, AI110760,

HLMMAZ14	2509	932679	1 - 249	15 - 263	AW385729, AC002300, AC003684, AL021878, AC005546, AL132712, Z95331, AC006581, AC009464, AC007387, and AC006398.
HLMMAZ72	2510	821500	1 - 592	15 - 606	AI762175.
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HLMMAZ91	2511	920216	1 - 239	15 - 253	Z97352.
HLMBB25	2512	792549	1 - 242	15 - 256	AA012851, H86413, AA019024, and H86637.
HLMBB43	2513	530611	1 - 343	15 - 357	AC020663.
HLMBB56	2514	968209	1 - 366	15 - 380	
HLMBB77	2515	799744	1 - 331	15 - 345	AA219006, F08248, AI053911, AI933714, AW149313, AA846876, AI056177, AA297666, AI537772, AI494539, AI870197, AI636730, AA410788, C15060, AL037632, AA838190, F12561, N35602, AA127426, AW020088, T07039, AA308716, AA584378, AA621381, AI524360, AA961035, AA588001, AW148507, AA541423, AA213959, AA515457, AW275510, AA575911, AA580808, AA828042, AA747778, AL045808, AL046156, AI791913, AA501649, AW341978, AI792133, AI821714, AW149156, H07953, AW419262, AA630672, AI133297, AW179306, AW270343, H71429, AA954924, AA829036, AI344995, AI311276, AA493975, AA478355, AI925579, AA508359, T92321, AW235497, AI499588, AA878409, AL138182, AI287475, AA487621, T74524, AI311927, AL079645, AA493708, AA714276, AA613232, AI223700, AA228778, AA488746, AW023865, AA827231, AW274349, AI687343, F13808, AW378532, AA457070, AA086368, AA663461, AA326139, AA484267, AA372481, AA659360, AA503119, AA436774, AW303196, AA828749, AI648410, AL042927, AA502991, AA745507, AI250281, AW179305, AI282511, AI341571, H73550, AA436782, AA456578, AA522642, AA903253, AI873990, AA469400, AI284640, AI754567, AL035847, AI755214, AA827215, AA355379, AA847702, AA137013, AA658362, AA309257, AI745151, AI431240, H12071, AA380354, AI619436, AA515905, AL046409, AA683082, AL041373, AW408729, AA378690, AA508809, AA745406, AI821785, AA446657, H18914, AA833896, AA533463, AA833875, AA767963, AA508104, AA371482, AA557883, AL036037, AA469451, AA207033, AW196064, AA564865, AL041526, AI678368, AA526856, AA501852, AI791150, AW301350, AI818231, AA463590, AW020340, AI720058, AI040342, AA715814, N23504, AW172999, AI733856, AA732253, AA749235, AA610219, AI678785, AL048925, AW022655, AA568754, AI292257, AI377161, AI345891, AA788901, AA644090, AA531079, R89542, AA620467, AA630860, AA581123, AA502860, AW250905, AI149478, F25733, AI732677, AI281881, AA846907, AW130962, AB029885, U62317, AP000211, AP000133, AC006213, AC005778, AC006144, AC007298,

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HLMBB80	2516	950730	1 - 355	15 - 369	
HLMBF68	2517	753614	1 - 551	15 - 565	AA548350, and AL035209.
HLMBQ04	2518	615621	1 - 430	15 - 444	
HLMBQ77	2519	954969	1 - 726	15 - 740	AA287609, AW305191, and AA309915.
HLMBU64	2520	577608	1 - 228	15 - 242	
HLMBU82	2521	799755	1 - 331	15 - 345	AL035413.
HLMBV11	2522	967669	1 - 442	15 - 456	AA383383, and AC009509.

HLMBV14	2523	682023	1 - 396	15 - 410	<p> A1471481, AA317973, AW088202, AA350859, AA650244, A1679379, A1284640, A1688846, A1446464, AA469451, A1251002, AA228420, AL041368, A1679888, AW264973, A1286264, T07451, AL046409, H63607, A1339850, AW440836, AW274349, AW131034, AW193432, A1918421, A1962050, A1273185, AA826303, A1619997, AW029038, A1929531, AW236342, AW419262, AA515128, A1890923, AW166815, AA886584, AA659083, AL040130, AA515051, F36273, A1610159, AW162049, A1824562, AL042420, F29980, AA977743, AW303196, A1431303, AA713815, AW301350, AA483068, AA364456, AL043721, AW193265, A1904894, A1537955, A1133636, A1567674, A1873916, AA594145, AA598824, A1625244, A150222, A1679782, AA190613, AW088058, AA365347, A1133164, A1341664, A120674, AA664535, A1278997, A1281697, A1350211, AL038785, AA229785, F18974, A1205126, A1608626, AA077817, A1653886, A1334443, A1053672, A1064864, H64777, A1613280, AA133986, AW055226, AA243452, A1469172, H88666, A1312149, A1830390, N25296, A1628288, A1282832, AA044863, AL119391, A1049722, A1951889, AW028400, A1287528, AA318652, A1017024, AW276827, AA177061, A1917271, N29933, A1286356, AA252763, C06458, A1138265, AW406447, A1537030, A1270117, A1951928, A1345654, AA021367, A1281903, AA385100, AA515224, F37169, A1289067, A1291124, AA634146, AW276435, AA771811, A1287485, A1821356, A1375710, A1340453, AA515435, A1291268, AL041412, AL041690, AA745410, A1358571, F32654, AA377730, A1301273, AA468131, A1168185, A1144330, A1110770, H39611, AW261871, AC003971, AL021368, AL031387, A1109985, AC000004, A117829, AC007999, AL132994, AC002564, AL049830, AC004859, Z75741, A1006996, AC004594, AC006430, AL031224, AC010170, AL035458, AL023284, AC005999, AL035416, AC006160, AL117356, AC003954, Z96074, AC004459, AL031286, AC005694, AP000705, AL096829, AL121578, AL035422, AL035446, Z84719, AL109759, AL022397, AL121871, AC006511, AL021397, Z98255, U91326, AL049777, AC005529, AC006479, AF029308, AC006238, AL008708, AC007073, AC008268, AC006459, U89335, AC004819, AC004677, AC006044, Z97205, AC005527, AC005832, AL096769, U70984, AC005844, AL109622, AC005191, AL009172, AP000519, AC004592, AL136297, AC006251, AC007051, AP000014, AL049709, AC006020, AB023056, AC003075, AL121823, AL035687, Z77249, AP000152, AP000011, AL109807, AC007546, AL008719, AC006525, AL022160, Z74696, AL035067, AC002544, AP000515, AL031733, AF064857, AC002457, AL023580, AC004864, Z84814, AC000073, AC000085, AF049895, AC005084, AP000473, AL096767, Z98946, AL117351, AL109984, AL023582, AC003015, AC004702, AL021026, Z98200, AL031734, AL033403, AC006256, AP000307, AL050305, AC004769, AC008149, AL110505, AB000882, AC006417, AL109653, Z73986, AC005539, AC007750, AL132800, U69730, Y10196, AC006946, AF109076, AC003029, AF172277, AP000080, AC007214, AC002381, AC006374, AL031391, AL109837, AC002531, AC003045, AL135746, AC007115, AL022310, AC006249, AL049873, A1239322, AL021877, AC006040, AL022319, AL136363, AL031782, AC005863, AC005909, AC004979, AC004842, </p>
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HLMBV24	2524	825595	1 - 232	15 - 246	
HLMBV72	2525	688069	1 - 295	15 - 309	
HLMBW11	2526	950728	1 - 925	15 - 939	AW009940, AI394293, A1082857, AA227673, AW207417, AA491391, N99896, AA491389, AA227560, AI000839, AA361942, and AF156884.
HLMBX06	2527	954576	1 - 397	15 - 411	AW409578.
HLMBX19	2528	879667	1 - 233	15 - 247	AC007539.
HLMBY16	2529	531053	1 - 193	15 - 207	
HLMBZ31	2530	967640	1 - 270	15 - 284	
HLMBZ47	2531	577605	1 - 348	15 - 362	AC003070, and AL135783.
HLMBZ73	2532	531401	1 - 209	15 - 223	
HLMCA13	2533	790952	1 - 398	15 - 412	R61738, AL117647, AB023195, and AL117518.
HLMCA22	2534	529185	1 - 257	15 - 271	
HLMCI32	2535	799767	1 - 337	15 - 351	
HLMCI64	2536	739397	1 - 314	15 - 328	AA719251, and AC005839.
HLMCI66	2537	707231	1 - 83	15 - 97	
HLMCK45	2538	698342	1 - 268	15 - 282	
HLMCL50	2539	921041	1 - 179	15 - 193	
HLMCL93	2540	799699	1 - 620	15 - 634	AA192733.
HLMCT06	2541	954615	1 - 378	15 - 392	AC005696, AC006536, AC004500, AC004589, AL096773, AC007023, AC007057, and AL132712.
HLMCT15	2542	507212	1 - 244	15 - 258	
HLMCT24	2543	921543	1 - 231	15 - 245	AL035086.
HLMCT79	2544	916590	1 - 344	15 - 358	AW268314, AA767276, A1032114, F18098, AC007993, AC008085, AC006543, AC006544, AC005697, AC004686, AC005632, AC005730, AP000152, AP000011, AC009542, AC009330, AC005606, Z83840, AC002094, U91319, AC016026, AL023096, and AC002454.

HLMCT93	2545	888976	1 - 336	15 - 350	
HLMDE76	2546	529184	1 - 92	15 - 106	
HLMDF04	2547	694910	1 - 53	15 - 67	
HLMDF14	2548	799739	1 - 369	15 - 383	
HLMDF52	2549	571415	1 - 170	15 - 184	
HLMDFH54	2550	527128	1 - 495	15 - 509	Z82206.
HLMDFH78	2551	532741	1 - 249	15 - 263	H28779, A1865182, and AL136295.
HLMDFJ37	2552	577239	1 - 418	15 - 432	AL096768, AC002312, and AC005800.
HLMDFJ48	2553	720893	1 - 342	15 - 356	
HLMDFN83	2554	799742	1 - 340	15 - 354	
HLMDO02	2555	920859	1 - 235	15 - 249	
HLMDO18	2556	527896	1 - 136	15 - 150	
HLMDO61	2557	584982	1 - 141	15 - 155	AL096755.
HLMDO65	2558	742749	1 - 456	15 - 470	AA312110, T62666, H06759, W37108, W40387, A1620464, A1911142, R12100, W76480, W45377, Z45518, AA315859, and AF190465.
HLMDF35	2559	535500	1 - 247	15 - 261	AA131317, AW250536, AA456441, AA301053, AA301052, and D83782.
HLMDF37	2560	531232	1 - 126	15 - 140	Z83844.
HLMDF40	2561	531234	1 - 188	15 - 202	
HLMDF60	2562	920837	1 - 368	15 - 382	R89560, AA377325, H73561, AA550959, N70472, AA225100, R34070, AA298647, AA458573, AI683547, AA225028, AA063115, AW151247, N63897, T07878, AI889108, AI696343, AA632447, AA559241, N71619, AA502571, H62923, T03576, AA669711, AL024498, AL021707, AC005971, AC004491, AL022721, AC003080, Z85987, AC004967, AL022313, AC007421, U91323, AC006153, AC006014, AC005231, AC005089, Z84480, AC007226, AC005488, AL135744, AP000113, AC006088, AF047825, AC005081, AL022165, Z94801, AC007216, AC004955, AC004890, Z83844, AC007225, AL022320, AC004963, AC004893, AC006512, AC004938, AC005920, Z97630, AC006241, AF124523, AC004223, AC008040, U91326, AC004929, Z98044, AL035413, AC020663, AC005071, Z98051, AC007676, AL096701, Z98742, AC005057, AP000359, AC005184, AC002404, AB023049, Z85986, AC004000, AC002395, AF001549, AC005342, Z84487, Z99716, AC004859, AC007546, AP000557, AC002544, AL031311, AC005288, AL031289, AC005808, AC004895, AL023575, AC002470, AC004216, AC006285, AC004999, AL109627, Z86090, AC003029, AP000692, Z92542, AF031078, AC004841, AC005102, AC003043, AC002314, AC006077, AF000556, AL034423, AC006538, AC004883, AL022311, AL008718, AC005305, AC002094, AF030876, AC005412, AC005409, AC006160, AL034420, AF111168, AF001548, AB003151, AC007551, AL035415, AC004167, AP000689, AC005015, AC005632, AC005520, Z93023, AL050307, AC008372, U78027, AL035659, AF165926, AC005914, U07563, AL034429, AL050341, AC007182, Z98200,

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HLMR16	2563	530103	1 - 113	15 - 127	
HLMR33	2564	959707	1 - 416	15 - 430	
HLMR70	2565	531235	1 - 94	15 - 108	
HLMR17	2566	531231	1 - 210	15 - 224	AL050337.
HLMU04	2567	571393	1 - 281	15 - 295	
HLMU07	2568	930471	1 - 456	15 - 470	AI654933.
HLMU17	2569	528040	1 - 219	15 - 233	AL080243.
HLMU43	2570	575607	1 - 359	15 - 373	AI337315, AI492017, AI565658, AI565657, AI651781, AI591214, AI565667, and AL022316.
HLMU54	2571	856877	1 - 320	15 - 334	Z74023, and AF172244.
HLMU71	2572	531228	1 - 316	15 - 330	
HLMU96	2573	799729	1 - 309	15 - 323	
HLMV96	2574	934543	1 - 813	15 - 827	AI824014, and T79467.
HLMW28	2575	531230	1 - 293	15 - 307	
HLMW58	2576	799749	1 - 282	15 - 296	
HLMX46	2577	523771	1 - 306	15 - 320	
HLMX59	2578	739523	1 - 404	15 - 418	AA666254, R96738, R35404, AI571161, AA584484, AA740297, AA657778, AW089952, AA297844, C05714, H60313, AA587995, AI266003, H51835, H58666, N80546, AI682665, AI382324, T61514, AL118980, AI886056, F00818, AW079664, AI814739, AA603530, AA826081, AA515457, AI865807, AW068316, AA608751, AI872513, R07267, AA639946, AI289941, AI289942, AI955697, AA693484, AL049273, AL135744, AC003109, AC006238, AJ246003, AC007537, AC005736, AC005520, AL049757, AC005015, AC007057, AL049872, AJ010598, AL031291, AC006480, U91325, Z81314, AF187320, AL049748, AL034429, AC005210, AC007899, AF121781, AL121658, AL031670, D86995, AC002430, AC016025, AL021154, AL035249, AC007384, Z97056, AP000269, AP000032, AP000103, AC006064, AC005368, AC006088, AC007731, AC005971, AC005500, AC006026, AL050348, AC005859, AL020997, AC005914, AC006449, AC002511, AC002369, AP000347, AC002470, AC005513, AL023694, AL133448, AL020993, AL031803, Z94057, Z85986, AF047825, AC004383, AC005569, U91321, AL121655, AP000558, AC006080, AC001228, AF001549, AF111168, AP000350, U62293, AL031281, AL109827, AC007327, AC007308, AC005820, Z98941,

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HLM DX71	2579	799758	1 - 356	15 - 370	AA336841, and AL080172.
HLM DY24	2580	531219	1 - 408	15 - 422	AC002400.
HLM DY48	2581	666518	1 - 118	15 - 132	
HLM DY56	2582	518410	1 - 92	15 - 106	
HLM FA56	2583	730947	1 - 285	15 - 299	
HLM FA72	2584	531359	1 - 316	15 - 330	AC002299.
HLM FB58	2585	577643	1 - 352	15 - 366	
HLM FD75	2586	799682	1 - 524	15 - 538	
HLM FG58	2587	573130	1 - 344	15 - 358	
HLM FG66	2588	676040	1 - 435	15 - 449	
HLM FH74	2589	671941	1 - 423	15 - 437	
HLM FI89	2590	526929	1 - 185	15 - 199	
HLM FK45	2591	531222	1 - 253	15 - 267	
HLM FK63	2592	888660	1 - 574	15 - 588	AA305578, AW366296, AW375405, AW177440, D59859, AW360811, D81030, AW377671, AA305409, AW178893, AI905856, D80314, C14389, AW178906, AW179328, AW375406, AW378534, AW179332, D58283, AW377672, AW179023, AW178905, D80022, C14331, D80166, D80195, D80193, D59927, D59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AA514186, AW378532, T03269, D81026, D80269, C14014, D80212, D80366, D51060, D80196, D80188, D51022, D80248, D50979, D80219, D80522, D50995, AW352170, AW378528, AW178762, D80268, D80038, C15076, AW377676, AW352171, D57483, AI535850, AW177731, D80439, D59889, D80133, AW178907, D80045, AW179019, AW179024, D80247, AA514188, D80302, T48593, AW367967,

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HLMFK70	2593	856861	1 - 187	15 - 201	AC005486.
HLMFK92	2594	571369	1 - 361	15 - 375	AW361623, AI986246, AA535516, AW128941, AW337206, C16928, and C02317.
HLMFL71	2595	526928	1 - 354	15 - 368	AA150787, AA147514, AC006255, AR026676, AC003695, AC002091, AL050034, and AF083068.
HLMFN24	2596	781780	1 - 313	15 - 327	
HLMFN68	2597	799751	1 - 392	15 - 406	
HLMFR49	2598	842045	1 - 165	15 - 179	
HLMFR72	2599	799709	1 - 356	15 - 370	AW027339, and AA812373.
HLMFU09	2600	909666	1 - 372	15 - 386	AA004442.
HLMFU13	2601	657283	1 - 289	15 - 303	AL133246.
HLMFU39	2602	856872	1 - 326	15 - 340	
HLMFU52	2603	727197	1 - 319	15 - 333	
HLMFU90	2604	699667	1 - 323	15 - 337	
HLMFW19	2605	534799	1 - 302	15 - 316	
HLMGK40	2606	531355	1 - 337	15 - 351	
HLMGK50	2607	927675	1 - 289	15 - 303	AA668863.
HLMGP66	2608	799725	1 - 326	15 - 340	
HLMGP96	2609	531225	1 - 167	15 - 181	
HLMGY13	2610	921457	1 - 280	15 - 294	R98835, N52276, AA165353, AA583579, AA730488, AW085542, AA583568, AW270429, AA682889, AW270351, AI360504, AA052973, W42587, AL036070, AA322542, AW051819, H48413, AA363003, AL048275, T40550, F00564, T39390, AA470567, C15362, T30418, AI268019, N72170, R95840, AC005081, AC005015, AC007114, AL031259, AC007200, AC007687, AL136168, AC000120, AC005920, AL109809, AL132987, AC007225, AL008718, U95739, AF029308, AC004750, Z93930, Z83840, AC002466, AL022313, AC006011, AC002312, AC007051, AC005089, AC007919, AL049780, AC007055, AC005180, and AC005924.
HLMGZ09	2611	625638	1 - 290	15 - 304	AA205292, and AC005180.
HLMGZ33	2612	805813	1 - 295	15 - 309	AA938180.
HLMHD65	2613	799736	1 - 342	15 - 356	AL022331.
HLMHG83	2614	799770	1 - 383	15 - 397	

HLMHG84	2615	572412	1 - 99	15 - 113	AC006117.
HLMHH39	2616	823450	1 - 479	15 - 493	D87432.
HLMHH40	2617	878117	1 - 325	15 - 339	H44968, AI22305, AI554649, AI433337, AI250867, AI160234, AA503975, R50669, AI672302, AI870048, AW051623, W88425, AW363795, AB022524, AI012652, and AB012162.
HLMHH57	2618	714813	1 - 441	15 - 455	
HLMHK16	2619	571414	1 - 317	15 - 331	
HLMHK58	2620	799782	1 - 437	15 - 451	
HLMHK61	2621	856848	1 - 342	15 - 356	AC002301.
HLMHK62	2622	579101	1 - 193	15 - 207	AA700441.
HLMHI60	2623	778481	1 - 220	15 - 234	
HLMHM63	2624	578838	1 - 219	15 - 233	AA765146.
HLMHN21	2625	516580	1 - 404	15 - 418	AA285377, AA283300, AW404274, and W24845.
HLMHN27	2626	856846	1 - 318	15 - 332	AI344280, and AW274081.
HLMHN31	2627	925730	1 - 1073	15 - 1087	AA809335, AA836164, AA972108, AA765694, AA836103, AI364926, AA485705, AA485839, AI357107, AI702527, AW084056, AI310575, AI340533, AA693331, AA127565, AA001397, AI334893, AA669025, X80340, M96857, U86379, AL137479, Y10655, AF068229, AF091084, AL137267, AL137558, AF093119, AL110225, AL080126, and X57961.
HLMHN37	2628	723081	1 - 339	15 - 353	
HLMHN45	2629	668906	1 - 256	15 - 270	AC005600.
HLMHO11	2630	964945	1 - 125	15 - 139	
HLMHO21	2631	799772	1 - 224	15 - 238	
HLMHO33	2632	799756	1 - 313	15 - 327	
HLMHP67	2633	967636	1 - 343	15 - 357	
HLMHP74	2634	953956	1 - 281	15 - 295	AA730448, AI174535, AI674840, T90861, AC004257, AF107258, AC003029, Z95116, AC005764, AC008015, AC004491, AL080274, AL033525, Z98044, AC005803, Z73979, AC000353, AL034376, D86993, AL035608, AC004560, AC004876, AC003035, AC005523, AC005529, AL049569, AL078463, AC002350, AL050318, AC004983, Z97054, AC007637, AL049712, AC016025, AC005553, AC005722, AC002558, AL109758, AF196779, AC006511, AC007278, AP000555, AC003101, Z99128, AC000379, AL133445, AC004659, AL080243, AP000038, and AP000106.
HLMHR25	2635	920711	1 - 297	15 - 311	
HLMHR55	2636	825530	1 - 204	15 - 218	
HLMHS31	2637	752375	1 - 308	15 - 322	AB028953.
HLMHS41	2638	574741	1 - 219	15 - 233	
HLMHS66	2639	574742	1 - 582	15 - 596	AA234939, AI016356, AI742982, AI089004, AA236782, AI468803, AA236830, AW242613, and AA234938.

HLMHT67	2640	579048	1 - 342	15 - 356	AA351877, AI377249, AI377250, AI239499, AC005274, AI132777, and AI1023655. AI251696, AI224583, AI254508, AI036896, AI890297, AW338376, AA171400, AI439525, AW238341, AW189371, AA425283, AA642809, AI754926, AA807704, AA469230, AA218684, AI473671, AA669238, AA720582, AI185990, AI801479, AA707747, AI525423, AA679946, AA503298, R99253, AW270468, AI279417, AA601712, AI277373, AI754257, AA084320, AA286836, AW274078, AI278440, N26159, AA197089, AI890468, AA180056, AA713946, AA814503, AI904840, AI860423, AA523812, AI890111, AA828045, AI332615, AA224759, AI744199, AI733523, AA829565, AI913167, AI049994, AI869797, AI800426, AA873737, AW089625, AW328446, AI095206, AL078584, AC005527, AL139054, AC006441, AC005940, AC006449, AL024498, AL022316, AC004636, AC004242, AC005225, AL121923, AL121754, AC004973, AC003104, AC006581, AL031347, AC004099, AC004382, AL109798, AC004870, AL122023, AC005520, U52111, AP000510, AC005288, AC006947, AC005914, AC006030, AL031427, Z99129, AC010077, AI251973, AL034420, AC005823, AC005081, AB023048, AC004797, AL021707, Z83840, AL049776, Z82245, U80017, AC006023, AF111168, AC003682, AF111167, AC005210, AC007066, AL049712, AP000089, AC004755, AL022237, AP000141, AC018769, AC007052, AF190465, AC005837, AC003969, AP000501, U73634, AC007488, AC005620, AC007030, AF196969, AP000359, U78027, AL021393, AC004156, AC004263, Y14768, AL031284, AF129756, AC009336, AC006538, AC003036, AD000092, AP000505, AL035072, AF205588, AF015720, AC003007, Z99774, AL022320, D87675, AL035422, AC005070, AC006211, AC006071, AC004638, AC002433, AC005412, AL049761, AL109839, AC005399, AL034548, Z95116, AL022097, AC002347, AC004448, AC007685, AL117258, AC005859, AP000503, AC005803, AL031311, AC005632, AL109963, AC003663, AL033533, AC006060, AL049869, AL033381, AL049793, U82668, AP000694, AF196972, AC007546, AC004967, AC004963, AC005908, AL031286, AC006277, AJ229041, AC002991, Z98051, AF130248, AC008154, AC002045, AC002470, U95742, AC005778, AC005937, AL023803, AL031602, AC004150, AL049552, AC004814, Z86090, AC007216, AL009181, AL078621, AC004409, AC005180, AL109827, AL035458, AC006101, AC004021, AC002369, AC005695, AC009288, AC007563, AC007536, AC004584, U91326, AL031589, AC007708, AC016025, Z97630, AC005160, AC005231, AC002350, AL022165, AC004816, AP000354, AF134726, Z93017, AL023575, AL049759, AL035462, Z80998, AC005874, AF134471, AL033527, AC006948, AP000557, AC002314, AC007096, AL121652, AC012099, AC002544, AP000552, AC007390, AC004583, AL033392, AC008018, AC004004, AL049780, AC007068, AC005730, AC002302, AP000511, AC004887, AC004486, Z81315, AC005411, AL035460, AF207955, AC002367, AP000104, AP000032, AC002094, AC005261, AC006197, U91325,
HLMHT94	2641	531054	1 - 271	15 - 285	
HLMHU80	2642	799723	1 - 282	15 - 296	
HLMHW31	2643	536579	1 - 331	15 - 345	
HLMHY64	2644	866458	1 - 624	15 - 638	

						AC007225, AL035071, AC005207, AC007324, AC005800, AC004929, AC000353, AC003688, AL008718, AC005237, AL034549, AL035086, AC005841, AC007981, AB001523, AF030453, AC009275, AL049872, AC007845, AC005776, U52112, AC005821, AC007021, AC005344, AP000030, AP000211, AP000133, AL021978, AC004811, AL121603, AC004985, AC007774, AL031680, AC004821, AC005358, and AC005088.
HLMHZ14	2645	799724	1 - 190	15 - 204		
HLMHZ59	2646	530071	1 - 184	15 - 198		
HLMIC94	2647	710391	1 - 279	15 - 293		AC002549.
HLMIE70	2648	578795	1 - 289	15 - 303		AC009363, and AC007182.
HLMIF22	2649	572424	1 - 132	15 - 146		AL031282.
HLMIG11	2650	967291	1 - 289	15 - 303		AA559319.
HLMIG50	2651	856845	1 - 572	15 - 586		AA569287, AA603349, AA639913, AA359559, AA524229, AA887181, AA359422, AA424170, AL569363, AW088581, AA491954, AA226519, AA081883, AA328334, AA485092, H61906, AL046471, A1962985, AA226204, Z98742, AC005972, Z83847, AC007277, AC006449, AC007216, AC005510, AC006251, AC005803, AL133445, Z98884, Z82180, AC006453, AL136295, AC004834, Z99716, AE000658, AC004707, AF038458, AC005280, AC006241, AL024507, AC004149, D83253, AF015720, AC004765, AC002565, AL078644, AC006441, AL031283, AC006120, AJ229041, AL096703, Z96074, AC006060, AC005529, AC004106, AL022721, AC004878, AF053356, AL034406, AC008372, AL031659, AL132826, AC002563, AC006539, AL109798, AC002300, AC007021, U95090, AL031005, AC005102, AL133163, AC005291, AC006512, AC005599, AC005484, AC007899, AC004821, AF207550, AC004382, AC002347, AC004750, AC004966, and AL031668.
HLMIG72	2652	799747	1 - 317	15 - 331		H67040, W20228, AL049836, Z94160, AF196969, AC004509, Z97034, AC009501, AC006511, AL023753, Z82244, AF031078, AF030876, and AC002407.
HLMIH10	2653	964890	1 - 387	15 - 401		T03401, AA811741, AA488689, W00856, AA192764, T41134, T07327, A1174489, AA470567, H72444, AA364082, AA368329, AA411590, F00937, AA736713, AA434346, H54729, AA827383, AA741403, A1018726, AA481765, T03928, AA634822, AA527030, T83057, A1143653, AA663373, AA748840, AA279649, A1130709, A1536858, A1537995, A148775, A1814682, A1291439, R95840, A1928890, AA831801, AA230221, AW190277, AA832016, AA668727, T68315, AA626595, AA598889, N80390, A1683019, AA587835, AA214453, AA214457, AA489240, AA713735, AA598497, AW236235, AA605243, AA167809, AA740571, A1873627, N72170, AA910316, AA714073, AA339123, AW272640, H78898, A1040472, AA598740, AA533660, T46997, AA513884, A1135761, AA079076, AW090710, H63220, AW019964, A1150934, AA666066, AA084950, AA846014, AA525407, N47820, H43183, AA515351, AW239465, A1624038, AW337805, AA015948, AA584788, N55296, AA192293, A1362694, A1860535, A1903464, AA084439, AA584531, A1732116, A1732176, N66744, AA594179, F19019, A1871691, AL039117, AA155817, H78855, AA680221, AA055667, A1114733, A1133552,

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				15 - 538	AA773956.
HLMTH44	2654	883871	1 - 524	15 - 436	A1133485.
HLMTH62	2655	799713	1 - 422	15 - 350	A1880829.
HLMTH73	2656	576692	1 - 336		

HLMIO47	2657	531224	1 - 173	15 - 187	R93381, H53163, H28130, R93382, H53060, AW015657, AI092249, T86432, H49391, AW190127, AA625561, AI339159, AW250827, AI357128, AI148823, AI818046, AA579979, AI439571, AI095655, AW246805, W72325, AA379087, AI817450, AI761511, AA625749, AA099988, AW081185, AW389525, AI885881, AA745180, AA805668, H64600, AA211386, W72109, U51698, AA973184, AI358231, AA379088, AA765921, AI744539, AI885882, AW377601, AA291023, AI933181, AI872742, AA992858, AI911887, AI337237, F37915, AA317577, F34702, W77795, H49202, AA732721, AC003103, AF161395, AJ249940, and AF083208.
HLMIP23	2658	686670	1 - 700	15 - 714	AI034373, H01560, AI760723, AI741933, AI808161, AA829766, AA768221, AA848005, AA824447, AA848006, AA766456, H01464, AA835854, AI222026, and T18554.
HLMIQ11	2659	921009	1 - 772	15 - 786	AA824447, AA848006, AA766456, H01464, AA835854, AI222026, and T18554.
HLMIQ72	2660	715650	1 - 358	15 - 372	Z82206.
HLMIQ73	2661	764522	1 - 386	15 - 400	
HLMIQ93	2662	576657	1 - 310	15 - 324	
HLMIR23	2663	916938	1 - 345	15 - 359	AL031651.
HLMIR40	2664	578756	1 - 433	15 - 447	AB020864.
HLMIS03	2665	924651	1 - 337	15 - 351	Z82243.
HLMIS16	2666	572430	1 - 256	15 - 270	AC009731.
HLMIS64	2667	572509	1 - 348	15 - 362	
HLMIS77	2668	971141	1 - 298	15 - 312	AI880168, AW074398, AA435854, AW169687, AI344844, F19258, AA548137, AI345654, W60516, AA515224, AI205126, AW193295, AA747472, AW265654, AI890928, AI160117, AI914706, AW327360, AI963786, AW265197, F29989, AW261871, F28576, AI569086, AI890570, AW166815, AA229785, AI079910, AI865364, AW188544, AI445436, AI708009, AI674873, AI962050, AI358229, AA308806, AW406755, AL079645, AI365988, AI890923, F36273, AI917271, AI284640, AI929531, AA581903, AI051551, AW339687, AL042856, AA559290, AI635272, AW302709, AA244415, AW162049, AI904894, AA515051, AA579184, AL041368, AI818620, AI471374, AI951495, AI357551, AI003743, AI339850, F25203, AW264969, AI252085, AI557323, AW238016, AI252114, AW264973, AL041146, AI792903, AI792864, AI733957, AL038785, AI734002, AW130799, AI623720, AI890052, AW029038, AA641103, AL138265, AW169230, AI251002, AI433187, AI610159, AW080134, AI038279, AA179136, AI349874, AI521618, AA599021, F24284, AI110770, AI473943, AI298710, N71724, AW090811, AW337985, AW338869, AW341892, T71998, AW419262, AI802526, AA715270, AI499503, AA482711, F18974, AI921188, AI471481, AA347927, AW088616, AC006237, AC005827, AC006137, AL031983, AC004816, AC005295, AC005412, AC004931, AC006299, Z98950, AP000354, AF134726, AC004019, Z85996, AC007320, AC004687, AL109628, AC005696, AF001552, AC004065, AC005632, AL049871, AL049775, AC004685, AP001054, AC007161, AC005815, AC005822, AP000292, AL008708, AC005164, AF039905, AC004451,

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HLMIS85	2669	578751	1 - 315	15 - 329	AA148615, AA826983, AI002177, AA832130, AA501575, AA911524, N94192, N42040, AL048544, AL038936, AW380074, AL046678, H21449, AA176605, AI338426, H42075, R59567, AL043098, AW438916, AW075915, AA172191, N27833, H96518, AL044590, AA319830, AA304977, F32893, AL038909, AA321105, AI471418, AW270258, H15814, AA379332, AI744949, AA226584, AA513850, AA381762, H60188, AA713922, AA381747, AL040473, AI886060, F18350, AA226270, R39626, AI500454, AA744444, AW247819, D44678, AI886365, AI925321, AA745356, W90237, AA570416, AA987962, AA528441, AA379133, AA461308, AA574442, AA488620, N27362, AA599352, AA410926, AA610509, N69316, AA747243, AI298281, AA720746, AW008237, AA804993, AI912322, AW236342, AW078495, N54764, AI932884, AW440976, AA573127, H72688, AA215335, AI446601, AI244758, H55914, AW341903, T48341, AA548087, AA084070, AI075266, AI613419, AA648044, AI291124, AI223616, AA984191, C16699, N27651, AI625468, AI291268, AI537030, AI926681, AI282336,

HLMI89	2670	572506	1 - 351	15 - 365	AL1860677, AA737150, AW129694, AI908628, AA608667, AA657741, R07395, AA213741, AI250019, AI144055, AA758143, AA928904, H52974, AA729471, II48865, R97934, AA513293, AW057776, C05694, AA603156, AA843878, AA055601, R10488, AC003003, AC004814, AL035424, AC004821, AC004907, AF069074, AC002565, AC004996, AF000952, AC002425, AP000500, AC004885, AL110502, AC004918, Z15026, AC004181, Y14768, AP000505, AF129756, AC006142, AC006238, AC000087, AC002418, AP000234, AP000148, AP000233, Z83843, AC004386, AC004527, AC004498, AC005390, AC004596, AP000503, AP000496, AC004217, AC007161, Z86061, AC004835, AL121825, AC007237, AC004231, AC005288, AL022097, AC005399, AL121657, AC004832, AL022067, AF134726, AC005823, AC005746, AC005971, AF048990, AC005186, AF222685, AL035420, AL020995, AF001550, AL031733, AL050326, AC007450, U91319, AC005826, AC000111, U91326, AC005358, AC004167, Z83846, AC006379, AC007151, D45371, AB012165, AL121653, D87001, D86903, Z83855, D88268, AC002559, AC002369, AC002996, Z93017, AC007023, AC005304, AC007371, AC006566, AC005015, U95742, AL121658, AC004765, AB032486, AC005567, AC005360, Z83845, AC004864, AC005740, AC005034, AC008124, AC008067, X74984, AC007216, Z68322, AF148319, Z84723, Z72521, Z69890, Z74019, AC005361, AL031721, Z86001, AC005946, AC000039, Z97183, AL031393, AC005306, Z82097, AC004651, AL121846, AC004236, AC005796, AC006273, AB008681, AL031058, AP000255, AL035072, AL031575, AC005755, AL049653, AC004922, AC004938, AC005480, Z94160, AP000213, Z85999, AL008635, AC002115, AC004584, AC004263, AL031774, AP000135, AL034379, AC002551, AL034420, AL034425, AL031984, Z84720, AP000351, AC006088, AL022326, AL034402, AC006019, AC008044, Y18000, Z93016, AC007283, AC004000, AC002073, Z82214, AC004253, AL035067, AL009028, AL080317, AF114156, AC006455, AC002432, AC005913, AP000031, AP000556, AC004921, AC004020, AC002063, AC006157, AC006512, AC005242, AP000350, AP000356, AC008275, AC005225, AC007263, AL035405, AC006600, AC004882, AC008064, AP000355, AL035089, AC016027, AC011362, AL080243, AC005696, AC006265, AC008080, and AC005081.
HLMI89	2670	572506	1 - 351	15 - 365	
HLMIT37	2671	799711	1 - 220	15 - 234	
HLMIT43	2672	799705	1 - 295	15 - 309	AI188748, and AI188321.
HLMIT76	2673	856860	1 - 358	15 - 372	T82950.
HLMIW09	2674	799740	1 - 391	15 - 405	
HLMIW07	2675	871698	1 - 280	15 - 294	U50537.
HLMIW89	2676	799753	1 - 187	15 - 201	
HLMIW90	2677	920464	1 - 310	15 - 324	AW051629.
HLMIW61	2678	727730	1 - 693	15 - 707	AI32830, AI887069, AA883715, H43750, AF031077, AF031078, and AF030876.
HLMIW95	2679	960056	1 - 683	15 - 697	H14342, AI333974, AW015007, AI565858, AW387096, AW387086, AW062872, AW178917,

HLMJY56	2680	571401	1 - 296	15 - 310	AI122052, and AB018336.
HLMJZ02	2681	920426	1 - 366	15 - 380	AL034408.
HLMJZ25	2682	825087	1 - 258	15 - 272	AL135476, and D63478.
HLMJZ40	2683	715586	1 - 241	15 - 255	
HLMJA05	2684	932173	1 - 363	15 - 377	
HLMJA30	2685	955980	1 - 345	15 - 359	AI902968, AI902983, AA291228, D31488, AA324899, D31516, AI969121, AC004235, and AC004034.
HLMJA66	2686	799731	1 - 343	15 - 357	
HLMJA83	2687	712447	1 - 491	15 - 505	
HLMJB04	2688	968284	1 - 293	15 - 307	F19459.
HLMJB23	2689	578827	1 - 309	15 - 323	
HLMJB60	2690	924974	1 - 341	15 - 355	AL042756.
HLMJC35	2691	576944	1 - 287	15 - 301	
HLMJC76	2692	770177	1 - 345	15 - 359	
HLMMA16	2693	576612	1 - 308	15 - 322	AC011504, Z93930, AC006398, AP000247, AL049759, AL020997, U95090, and AC005049.
HLMMA52	2694	920292	1 - 453	15 - 467	
HLMMA76	2695	799741	1 - 326	15 - 340	AL023653.
HLMMC72	2696	760717	1 - 302	15 - 316	
HLMMD05	2697	932127	1 - 401	15 - 415	
HLMMD26	2698	799743	1 - 337	15 - 351	
HLMMD28	2699	959900	1 - 173	15 - 187	AC002400.
HLMMD89	2700	920442	1 - 149	15 - 163	
HLMME77	2701	710989	1 - 395	15 - 409	
HLMMF24	2702	677303	1 - 498	15 - 512	W38578, AI476515, AW207177, AI630843, AI340048, AI807826, AI440328, AI766156, AW136049, AI990469, AI830815, AI951610, AW139134, AI745414, AI620207, AI417731, AI479435, AI700511, AA342377, AW241823, AW139388, AW439228, AI433438, AA935611, and AA872559.
HLMMF82	2703	571403	1 - 262	15 - 276	
HLMMG02	2704	920427	1 - 352	15 - 366	AC006274.
HLMMG23	2705	881361	1 - 331	15 - 345	
HLMMI18	2706	666575	1 - 421	15 - 435	AC007690.
HLMMI86	2707	678672	1 - 331	15 - 345	M63543, and M63544.
HLMMI08	2708	959630	1 - 427	15 - 441	AI685869, AD000812, and AC002126.
HLMMJ37	2709	577571	1 - 354	15 - 368	
HLMMK28	2710	577670	1 - 447	15 - 461	

HLMMK39	2711	576167	1 - 303	15 - 317	AA400917, AA652249, AC005069, AL133216, AC006213, and AL021307.
HLMMN01	2712	657354	1 - 264	15 - 278	AI792650, and AP001065.
HLMMN32	2713	576180	1 - 430	15 - 444	AA299728, AI336771, T08386, H58891, AA487512, AA579399, AW408767, AA846482, AI890283, AC006538, AC004967, AL022328, Z93930, AC004983, AL132987, U91323, AC004776, AC005988, AL050308, Z98304, AL034548, AF2222686, Z86061, AC007685, AP001067, AC002448, AC005342, AJ011930, AB020863, AC004890, AC005157, AP000046, AP000114, AC002492, AL049856, AL109618, AC007687, AF205588, AL020995, AP000317, AP000119, AP000051, AP000166, Z99128, AC005015, AC006960, and AC004921.
HLMMN91	2714	795915	1 - 387	15 - 401	
HLMMO61	2715	740655	1 - 272	15 - 286	
HLMP25	2716	576166	1 - 326	15 - 340	AI394634.
HLMP68	2717	799715	1 - 351	15 - 365	AF008203.
HLMP69	2718	754221	1 - 294	15 - 308	
HLMP75	2719	876036	1 - 323	15 - 337	
HLMP88	2720	793125	1 - 671	15 - 685	H00150, and T20044.
HLMPR20	2721	799720	1 - 432	15 - 446	AP000331, AP000172, AP000057, AP000125, and Y17293.
HLMPR39	2722	711503	1 - 271	15 - 285	N62666, AA857377, AA205304, AI762045, AL022328, AC006312, AP000502, AL022326, AL034548, AL034423, AF134726, AC005668, AC005488, AC006044, and AC007537.
HLMPR45	2723	799771	1 - 434	15 - 448	AI249526, N52227, AI963514, AA404287, AA401240, AA287872, AA494038, AA700551, AA704781, AA490908, AA420998, AA421078, F32710, AI241835, AA236867, AA237066, AA188992, AC007371, AP000354, AL096701, AC005668, AC005254, AC006285, AI035587, AL121653, AL008721, AC007686, AF001550, AC002470, AL049776, AC004890, AL024498, AL117258, AC004814, AC005839, AL122020, Z98051, AC005820, Z85987, AP000557, AC005480, AF196970, AC003101, AC005578, U62293, AC005921, AL049759, AL133163, AL008729, AL008582, AP000556, AC004694, AC005702, AC005057, AL096712, AC006561, AL121769, AC004796, AL020993, AC005225, AC007308, AC004883, AC005920, AC006017, Z68276, AL022313, AC004019, AL080243, AL022163, AC004983, AC006322, AC007878, AL109653, AL035458, AL109798, AC005500, AL022328, AC005291, AP000512, AB023049, AC004231, AC016025, AC005332, AC002422, AC005887, AF129756, AC005726, U95090, AC005082, AL121694, AC006271, AC005280, AL022318, AC004103, AC002395, AL031055, AC008012, AL023799, Z46936, AC005755, Z85986, AC007731, AC007011, AC005288, and AC002522.
HLMMT08	2724	959578	1 - 672	15 - 686	W90795.
HLMMT22	2725	799737	1 - 416	15 - 430	
HLMMT72	2726	799719	1 - 323	15 - 337	AF111170.
HLMMT74	2727	506234	1 - 353	15 - 367	

HLMMT76	2728	578143	1 - 296	15 - 310	
HLMMU42	2729	424663	1 - 289	15 - 303	T90204, and AA658177.
HLMMV25	2730	799718	1 - 447	15 - 461	W87501, AL138252, AL021938, U52112, AC004802, AC000091, AC005258, AC005519, X63735, AC006430, AC002477, AC005264, X78262, AC008041, AC004463, AL034548, AB022785, AC005377, and AL035414.
HLMMV63	2731	463919	1 - 544	15 - 558	AA490121, and AA668334.
HLMMV65	2732	799706	1 - 441	15 - 455	AC004983, and AC003043.
HLMMV66	2733	926188	1 - 436	15 - 450	AI921541, AI808637, AI792451, AI054048, T29020, AW084519, AA614014, AW271140, AW207518, AA525796, and D30758.
HLMMW0 6	2734	935621	1 - 259	15 - 273	
HLMMW0 7	2735	953833	1 - 343	15 - 357	AC002302.
HLMMW2 9	2736	577160	1 - 293	15 - 307	
HLMMW3 3	2737	702478	1 - 270	15 - 284	U63312.
HLMMW3 7	2738	577153	1 - 341	15 - 355	AC002313, and AC002111.
HLMMW4 4	2739	716797	1 - 372	15 - 386	AA604843, H85059, AW069227, AA664604, F32893, AA878140, AI679294, AA604865, AW302048, AI689019, AI679871, AW438616, R92640, AW103383, AI471418, AI275183, AI634187, H79633, AI457313, AI002261, AA448838, AA574442, AA508873, AA857381, R95748, AI307201, AA311071, AA357987, R83585, AW189068, AA812058, AA613754, H55894, AW402145, AI754291, AA602458, AA528390, T03412, AI124798, R96643, AA393830, AA350886, AI939442, AI962030, AI289962, AA668587, AA558003, AI571543, F29541, AI963856, AA669102, AA488419, W45215, AW275953, AA488620, AA508578, AI500453, AI832865, AI708005, AA832145, AA599495, AI473701, AI279759, AA662974, AW088058, AW238016, AI627581, AI609223, AA721235, R32162, AI292236, N67387, AA457771, R59868, AA302970, AA610509, AW190505, AW072923, AA309287, AA706209, AA601986, AW373604, AW189353, F03525, AA461308, AA744036, AA904137, AA669647, AA599352, AI569510, F17858, AA492298, AA513141, AC002312, AL049779, AL031291, AC006441, AJ131757, AC016026, AF207550, AC007878, AL050318, AL008723, AC007243, AC004383, AF111168, AC007386, AP001054, AC005046, AL031602, AC000379, AL133448, AC004230, AL031447, AL031597, AC005911, AC004149, AC005908, AL049843, AL022324, AC003037, AF001549, AL035258, AC003003, AC006965, AP000346, AC006515, AL031591, AC007051, AC007032, AC005004, AP000553, AP000347, AL049872, AL031595, AL079305, AF178030, AL035420, AL078624, AC002536, AF064858, AC007845, U96629, AC006285, AC004453, AC007057.

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HLMW5 5	2740	815997	1 - 215	15 - 229	H59354.
HLMW7 1	2741	761346	1 - 239	15 - 253	AA300028, and AA299804.
HLMW7 7	2742	577150	1 - 290	15 - 304	
HLMWX19	2743	861317	1 - 580	15 - 594	AA630476, A1797998, A1360521, A1174703, AW403177, AL036896, AA382050, A1433952, AL121039, A1702049, AW020094, AA526542, AA425283, A1355246, AW265468, A1572680, AW419201, AA491941, AW410409, AW021399, A1547110, AA631915, AW148964, A1819419, AA084439, A1252005, A1254463, AA601376, AA199578, A1813920, AW023975, A1065031, A1798521, AA809125, A1570067, AW243817, AA493546, A1114543, AA640305, AW410844, A1150934, AA133568, AA199582, A1732690, A1439525, A1567676, A1242236, AA167656, AA524604, A1003068, A1753904, AA814719, N27362, AA598608, A1064968, AA632355, A1744963, T34066, A1568376, A1889236, AW104161, A1052366, A1889177, AW085626, AA555232, AA533066, AA557945, A1702018, A1343986, A1701898, AA601712, A1370470, A1745666, AW007420, AW069273, AW151247, AA593168, AL044966, A1445768, H53546,

				AW182182, AA551105, AA148618, AI031759, AI285651, AA524800, AI040051, AI675913, M77888, AA600127, AI760835, AA533040, F23338, AA482725, AA493245, AI312614, AI037910, AI733523, AW192930, AI311796, AA525753, AI925588, AA421536, AI308529, AJ003147, AC005730, AC002310, AL079342, AC007367, AL049869, AC005484, AP000512, AL049694, AC005619, AF129756, Z98742, AC005921, AC006597, AC004796, AC004150, AC005071, AC005696, AC004659, AP000552, AC005412, AP000504, AF205588, AF111168, AC004997, L44140, AC005585, AC005602, AC002314, AC005971, Z97054, AI020995, AC006511, AI022721, AL080286, AC006011, AC002091, AC004922, AC005082, AC005828, AC005632, AL022316, AC004985, AC018633, AI121658, AC008044, AC004967, AC005527, AC005529, AB017602, AC004895, AL022165, AL049697, AL031575, AC004477, AC004859, AP000499, AC004692, AC005365, Z84466, U91318, AC006530, AL080243, AF134726, Z83838, AC000025, AL031848, AC005041, AC012384, AF196779, AC007546, AL080317, AC005919, AL009181, AF165926, AP000952, AC007160, AF075049, AC003685, AC004999, AC002470, AC002404, AC005261, AC005876, AC005746, AB026898, AC008372, AI133448, AL080250, AL121652, Z97630, AC006121, AE000658, AC005046, AC005913, AC002366, AC006080, AL133243, AC005193, AC006509, AP000346, AL049830, AF053336, AI031668, AF060568, AC005037, Z83844, AC005524, AC004805, AC002349, AP000503, AC005280, AI117337, AC004686, AI133304, AC005519, AC005399, AI133289, AC004703, AC007421, Z93930, AL034420, AC005754, AC005695, Z84469, AD000671, AC007371, AI035587, AI024474, AC006088, AC006544, AI035445, AI021154, AC002364, AC004552, AC005410, Z93244, AF001548, AL049795, AC002996, AC003665, AC004084, AI022149, AI034402, AC005479, AL079295, AC006211, AC006512, AI031433, AI133163, AC005740, AI022163, AC006581, U52112, AC002126, AC007899, AC005387, AL080582, AC004821, AF038458, AC007390, AC004893, AC007842, AC005231, AI136504, U91327, AI031311, AC007564, AC003982, L47225, AC005666, AC002312, AC003007, U80017, AC005755, AC005089, AC006312, AI031657, AC005881, AC007566, AI121655, AP000553, AC006515, AC007510, AC006449, AC005081, AC005856, AC004814, AC007381, Z84474, AC004223, AC004882, AC005317, AC007192, AI117258, AC002551, AC006241, AP000365, AI117330, AC004228, AC007226, AC004125, AP000547, AC002991, U78027, Z77249, AC004969, AC012099, AI031427, AI031290, AC005393, AC007124, AI050324, AC004797, AI136130, AC005523, AC005031, AC006116, AI121754, AL049764, AI031678, AI031680, AC002120, AC002306, AC005694, L47226, L47224, AC004752, AI035659, AF196969, AC004804, AI122023, AD000091, AI121657, AC003025, AC005015, AI034417, AI022323, AC005822, L78810, AI136295, AC006960, AI132712, AP000556, AC007227, AI034343, AI049777, AC004783, and AC006946.
HLMMX57	2744	734985	1 - 375	15 - 389
HLMMX72	2745	760651	1 - 221	15 - 235
				W73175, W73147, and AF086335.

HLMX73	2746	764455	1 - 334	15 - 348	AW020095, AI538885, AI686576, N22276, AI859693, AA810985, AW161402, AI811192, AA420722, AI440238, AI334893, AI340604, AI345639, AI349960, AI310930, R80916, AI345745, AI377163, AI348995, F35534, AW084447, AI336495, AA761079, AI254457, AI312993, AW021059, AI680194, AI345014, AI520964, AI624138, AI002285, AI403097, AW089379, AI348895, AI045672, AI758538, AI567582, AI307520, AI345026, AI307454, AI523363, AI345562, AI340664, AI310592, AI307542, AI345817, AI288076, AI344808, AI345739, AI345674, AI671642, AW021189, AI312143, AI349637, AI312168, AI344843, AI334920, AW071276, AI344779, AI310927, AI307515, AI307578, AI336488, M85164, AI133640, AI137479, Y10655, AI122093, AI050116, AF033827, AI137267, AI049276, AI117435, AF175903, U79457, AB007812, Y07915, AI122110, AI117575, AI117438, AR022283, I52013, AI049426, AI137465, AI137641, AI110280, AB016226, AF118090, AI117457, AI136842, AF201468, AI137262, U89295, AF145233, I33391, AF069506, AI137258, AF042856, E13052, U53505, and AI110269.
HLMX85	2747	783429	1 - 192	15 - 206	
HLMY01	2748	916636	1 - 568	15 - 582	
HLMY03	2749	924511	1 - 506	15 - 520	
HLMZ13	2750	856802	1 - 444	15 - 458	AI135357, AA064815, AA707879, AC006947, AC005399, AC005037, AC002563, AC005411, AC004148, AL024507, AC004106, AC002470, AL121652, Z83822, AC005538, AL096791, AC005031, AP000555, AC004998, AC007129, AC004491, AC006430, AC005921, AL022320, AL096763, AL031680, AC006271, U80017, AC005300, AC005666, AL049779, AC005180, AC007685, AL031311, AL031643, AF200465, AF111169, AL121578, AC007773, AC007263, AC006441, AC006946, AL021154, AC006966, AC007649, AC006515, AI1022312, AB003151, AF139813, AL133353, Z83844, AC005179, U52111, AC005821, AC003684, AC005332, AC002045, AC002430, AL009183, AP000044, AP000112, AI121655, U95742, AC005620, AC007066, U95743, AC007384, AB020868, AC004983, AP000690, AC007216, Z97876, AF024534, AC002350, AF111167, AC004499, and AC006014.
HLMZ16	2751	927659	1 - 143	15 - 157	AI832562, AA115758, AA112944, and Z93784.
HLMNA14	2752	918207	1 - 680	15 - 694	AW007018, AI797782, AI082366, AI004621, AI961043, AI568510, AI479909, AW243347, AW005434, AW072053, AW205104, AI950423, AA220947, AI824907, AW136734, AA932943, AA227014, AI937632, AI654366, AI968787, AW137409, AW136158, AW137226, AA126260, AI392819, AI420238, AI656029, AI420881, AW051726, AI199450, AI767282, AI206270, AI700009, AI245711, AI738987, AI738427, AI860164, AW302243, AI936399, AA888132, AI805239, AI738729, AI474889, AW197199, AA218581, AI568827, AI382249, AA662157, AA398373, AA887699, AA582927, AA126364, T85626, AI878821, AI684228, and AI498040.
HLMNA84	2753	577572	1 - 725	15 - 739	AI554874, AA228131, AA227984, AW377797, AA227774, and AA227773.
HLMNA88	2754	856809	1 - 428	15 - 442	AA935428, AW002831, AA507814, AI186438, T06210, AA492584, AA558404, AA303055, T94140, AW104163, AI870453, AA365135, AA772906, AA668291, AA225406, AW272294,

HLMNA91	2755	765862	1 - 434	15 - 448	H65824, A1452836, A1587467, AA713705, AA599712, AA779783, A1369580, AA484164, AA831903, A1217131, AL048002, A1635028, AA224593, AA720582, A1274011, A1923451, AA508036, AA525293, R64617, AL134332, A1860751, A1923458, A1918419, A1580707, T10586, T56727, AA515138, AA487569, AA516320, AA747234, H71678, AC006965, AC004865, AC005291, AC007130, AL118510, AC004778, AL031672, AL008718, Z97353, AC010205, AL109627, AC004491, AC006120, AL135744, AL035685, AL035458, AL035405, AL031121, AL022327, AP000555, Z84484, AC003013, AC004836, U52112, AC005274, AL033517, AC006960, AF205588, AC002300, AC005696, AL050321, AL022320, AL035410, Z95115, AC004106, AC006312, AC005015, AL009181, AL049779, AC006013, AC005049, Z99127, AC007686, AP000556, AP000557, AC006449, AL034420, Z93020, AP000884, AL035400, AL049539, AC006455, AC002429, AF001548, AC002476, AC006121, AC008372, AC004686, AC006479, AC000025, AC005280, AC008273, AC002312, AF109907, AC004098, AC011311, AC004000, AC007687, AC006165, AB023051, AP000512, AC008249, AC007199, AC005002, AL031643, AF001550, AC005409, AL034351, Z98304, AC004605, AC007016, Z85987, U82828, Z83847, AL049843, AL034400, Z95116, AP000696, AC003010, AC005529, AC005921, U80017, L78810, AP000288, Z82097, AC005563, AC005784, AC006071, AP000109, AC003104, AL008635, AL035419, AL049759, AC004881, AC007041, AL031594, AL080243, AC004913, AP000256, AC006254, AF053356, AL117339, Z98946, AC004020, AL031589, AC005225, AC006946, AL035699, AC003041, AC007934, AC005288, AC018633, AC005180, AC005037, AL109758, AC004933, AC008085, AC003029, AP000098, AP000692, AC004859, AL031685, AC002456, AC002369, AC003108, Z94721, Z98048, AC004209, AL031283, AP000008, AC007371, AL009172, AC003982, AP000704, AC016027, AC005871, Z83838, AC016830, Z93023, AF196779, AL035658, Z93017, AL022319, AC004167, AC003663, AL096774, Y14768, AC004998, AL136504, Z98050, AC006487, D42052, AC004531, AL034561, AP000505, Y08837, AC005913, AP000466, U95739, AC005368, AL035417, AF035587, AC004656, AC004031, AL031279, AL049748, Z82174, AC003967, AJ225782, AL109852, AP000243, AL050341, AC007129, AC004743, AL034551, AF159056, AC003667, Z97989, AL133353, AC005618, AC005736, AL035587, AC007011, U93305, AC005043, AC004890, AC004216, AP000493, AL139054, AL031767, Z97056, AC005837, AC004647, AC007842, AL034553, AB014077, AL117337, U89335, AP000041, AL035078, AL031846, AC004242, AC000353, AC005822, AL022323, AF003626, and AC003025.
HLMNA91	2755	765862	1 - 434	15 - 448	AL135666.
HLMNB08	2756	959559	1 - 348	15 - 362	
HLMNB94	2757	575838	1 - 245	15 - 259	AA730982, AA278761, and AA815056.
HLMNE84	2758	760695	1 - 348	15 - 362	
HLMNG08	2759	876147	1 - 902	15 - 916	A1732794, A1821335, A1379196, AA486273, AA486272, A1734181, AA228776, A1821049, T64007, A1865113, and T64086.

HLMNG68	2760	921008	1 - 328	15 - 342	H01560, and A1034373.
HLMNH23	2761	787043	1 - 419	15 - 433	
HLMNH25	2762	575921	1 - 393	15 - 407	
HLMNI37	2763	920361	1 - 357	15 - 371	W92492, and T80433.
HLMNI69	2764	531356	1 - 224	15 - 238	
HLMNL01	2765	835623	1 - 256	15 - 270	AC003111, and AC004798.
HLMNL06	2766	935626	1 - 456	15 - 470	L44341, AA283762, AA825204, AA282978, AW150394, A1460103, A130647, F19258, AA601492, A1679379, A1679888, H54443, AA079421, H55779, AW172908, AA364488, F13749, AA467730, AA847099, AA603323, A1135643, H84359, H62778, A1751162, AW162288, A1124660, AA878149, A1696793, A1047317, A1537185, AA078677, AA443065, N55357, AA714140, A1025517, A1709066, AA225155, AA658235, A1689019, AW276435, A1193694, AA947837, AA554293, AA482757, A1138344, AA526514, C06471, A1867044, AA654627, A1039187, H69588, Z30128, F29989, R54896, A1286264, AA650244, AA776971, AA772016, AW238127, AA385100, A1358229, AW406755, A1467877, AW157005, A1365988, A1028510, AA319218, AA558697, AA299601, AW003434, A1610603, AW339687, A1801591, A1914913, A1635272, AA021552, A1499503, AA558269, N87410, AA826144, AA243452, AA321719, AA310158, AA496901, W38648, A1301218, AA482788, A1287528, N43757, A1040462, D56053, AA077952, AA252763, AA516207, H68112, AL041368, AW271917, AA450199, AA577748, A1345522, A1357551, AA569202, A1344844, A1287787, A1561335, A1907884, A1913017, AL119438, A1149915, A1921649, A1378729, AA828696, AW304531, AA228329, AC005529, AC004854, AL096701, AC003035, AL035400, AC007688, AL109984, AC006285, AC002430, AC016025, AC007384, AC006273, AC005086, AL033539, AC005089, AC005527, AC000025, AC005288, AL121694, AC002991, AC005971, AC004794, AC000076, AC005399, AC005839, AC018769, AF148319, AC006996, AL031577, AC005531, AC004098, AL117258, AC004531, AC004386, AL109827, AP000502, AL021808, AL021707, AC006449, AC002480, AC006476, AF196779, AL021546, AL049757, AC007546, AC005062, AC007021, AF128893, AL031281, AC006013, AD000090, AL034349, AL050325, AL031685, AL034420, AL133382, Z86090, AC006509, AB017654, AC004076, AC003041, AL050341, AL080242, AP000692, Z83849, AC009501, AC005264, AC003046, L78833, AC005324, AC006012, AC008033, AL132642, AF053356, AC004622, AL031255, AC005747, Z69917, AC003982, AC006208, AC002418, AC004966, L78810, AL035415, AC005932, AB003151, AC007199, U52112, AC007899, AL080243, AC005696, Z82198, AC006501, AC006130, AC008101, AC004916, AP000459, AC007226, AL096763, AL133371, AC007845, AC005914, AL049539, AC004596, AB023052, AL023513, AC007216, AL031650, AC004019, AC000015, AL034419, AC005746, AL132712, AL031280, AC010205, AL022237, AL034423, AC008079, AL049795, AC006064, AC004236, AC005409, AC004913, AP000128, AP000206, AC010197, AC007878, AC006511, U73168, AC003958, AC005940, AL034429, AL008629, AC005776, AC000134, AL0355407, AC004491,

					AC004975, AP000215, Z93783, AC004895, AC002554, AC005049, AC002116, AC005837, AC004099, AC005225, AL022721, AP000474, AC002476, AC007030, AC012599, AL022336, AC005786, AC003667, Z84480, AP000704, Z83822, AP001051, AC005019, AC002565, AL023803, AL022316, AC006111, AC002470, AC004534, AC002064, AC005193, AL033527, AC002485, AL049780, AL133304, AL031848, AL024498, AF107885, AC006530, AC005209, AL034417, AC004152, AF027390, AC000021, AC000022, AF164343, AL033533, AC020663, AC007707, U62317, Z85987, AC004542, AC002350, AC005944, AC007327, AL110114, AL110502, AL023807, AC004478, AF030453, AC005498, AC007228, AC005536, AL049779, AC005879, AC006041, AL034350, AL035681, AC002984, AC006055, and AL031053.
HLMNL08	2767	839948	1 - 402	15 - 416	AW291682, and AW084373.
HLMNL23	2768	675970	1 - 323	15 - 337	
HLMNL55	2769	964739	1 - 268	15 - 282	
HLMNL57	2770	575900	1 - 132	15 - 146	
HLMNL64	2771	578627	1 - 296	15 - 310	AW237905, AL279417, AL137946, AW327852, H93152, N59744, AL284543, AL933111, AL15081, AL284092, T56025, T08386, H79586, AL798313, AA807579, R83068, AA584484, AL251944, AL890862, AL524022, AL121130, AL251034, AA878407, AA010973, AA302978, AL419337, AL280574, AL361090, AW128881, AL859906, AL358712, AL421950, AL884861, AA610255, AA365980, AL859438, AW410481, AL046416, AW026305, T07225, AA378474, AA834764, AW188791, AL254770, AL254508, AA372736, AL188049, AW090629, R49266, AA683091, AA350406, AA371410, R88803, AA215585, AW247389, AA047849, AA636102, N47855, AW132097, N52323, N33851, AL914713, AW265688, AL254798, AA343894, AC004099, AP000301, AF039906, AC005046, AL008718, AP000208, AC005188, AP000247, AL246003, AC004841, AC012085, AP000045, AP000555, AE000658, AC004185, AF001548, AC004451, AL109827, Z98752, AC004491, AC003957, AP000509, AC004821, U85195, AP000692, AC006088, AL121653, D84394, AL096702, AL035072, AC006323, AC004777, AP000556, AF109907, Z82190, AC005409, AL023513, AC004770, Z98200, AL022396, AC004228, AC002045, AC004814, AC005317, AL121658, Z97056, AC002404, AC002326, AC004477, AL050343, AC006948, AL035461, AL031985, AC003692, AC004858, Z75887, AC000052, U91323, AC005280, AC006953, AC005288, AF015720, U80017, AC005588, AC018725, X51956, AL008583, Z84466, AC007993, AC007228, AC000085, AF196969, AC002039, AC004656, AD000092, AC004019, AC005378, Z83840, AC005740, AL031281, AL049576, AL133246, AL020997, AL035086, AC002369, AC004999, AC005156, AL109963, AC005067, AC006511, AC004129, AC004796, U91318, AL009031, AL022238, AL021879, AP000553, AC002476, AC005484, AL023807, AC007376, AL031622, U93305, AC005538, AL133382, AC005924, AC005089, AC009516, AC002477, AL049780, AC003956, AC007450, AC007214, AC006441, AL117330, Z83826, AC004983, AC006958, AL229041, AL050348, AL031594, Z93020, AC007157, AC005095, AC006040, AF031076, AL034418, AC002551, AC005180, AC006312,

					AF217403, AL009051, AC007899, AC006557, AL080317, AL034423, AC009247, AF030453, AL024493, AC006059, AC005274, AC004623, AL031589, AC004844, AC002316, AC007934, AC004585, AC004706, AL080243, AC007066, AL021393, AP000130, AC003026, AL009172, AL008639, AC005972, AC009248, Z82215, AC005037, Z98949, AL049843, AC004583, AC006538, AC005772, AC006947, AL031659, AL035455, AC004383, AP000065, AC005213, AC004884, AF111168, AC004950, AL049871, AC008372, AC004097, AC005316, AP000696, AL049830, AL049793, AC005102, AL022327, U95740, AC005881, AC006362, AC004804, AC007406, AC006241, AL049759, AC007381, AC005233, AC007666, AC004629, AF003626, AL035681, AC002381, AC004386, AC002994, AC005726, AC004854, AC005291, AC006468, AC002425, AL035659, AC006000, AC005391, Z93023, AC005088, AC004859, AL022476, AC007308, AP000103, AC006160, AC012627, AC006277, AP000359, AC004967, Z83844, and AC004526.
HLMNM19	2772	668746	1 - 428	15 - 442	AC007240, AB000876, AC004181, Y14768, AP000505, AB000882, and AC006011.
HLMNM39	2773	577649	1 - 437	15 - 451	AA52744.
HLMNM44	2774	577106	1 - 187	15 - 201	R44592, A1284595, AA572975, AA017690, H71585, AA744272, A1611440, AA515224, AA743966, A1859469, AA243452, N25037, AA601270, AA807579, A1356264, A1040051, AW275674, AL033518, AC004787, AC003081, AC002395, AP000130, AF196779, AP000247, Z83840, AF130343, AC004150, AC001228, Z95115, AC006021, Z97876, AC005696, U95743, AL117694, AC004890, AC006484, AC006512, AL096791, U47924, AL034420, AC005899, AC003037, AL022238, AL109827, AL022316, AC006539, AL049757, AC002544, AC012083, AC002059, AC005874, AF134471, AL132712, AP000553, AC006023, AC009516, AC005353, AC006239, AC005081, AC004963, AL135745, AC012384, AF001548, AF106656, AF053356, U07563, AP000475, AC007666, AL121658, AL121653, AC020663, AC007114, AP000008, AL133448, AC005370, AC004079, AC000026, AC007011, AC005233, AC005488, Z82203, Z85986, L48038, AC007055, AL135783, AL035659, AC004859, AC004821, AC007156, AL096701, AC006146, AL031681, AC005064, AC004955, U95742, AC004989, AC003015, AC004983, AF059675, AL022320, AC007193, AC004816, AF001550, AF190465, AC016025, AC006380, AC004258, AC004895, AC006362, AL021546, AC005330, AC004909, AC005399, AC005157, AP000501, AC005952, AC005015, AL008582, AC004583, AC005668, AC002070, AC005786, AC004885, AC002477, AC008123, Z81450, AC004643, AL050318, Z93783, AC006261, AC004013, AL117352, AL022326, L29766, AC005841, AP000472, AC005971, AC007216, AC005755, AC004408, AC004662, AC005225, AC004655, AF019413, AC006978, AL031594, AB023054, AF111168, AC005484, AC005202, AC005291, AC004921, AC006014, AC005180, AF165926, AP000031, AF064861, U91326, AC003689, AC006948, AC006042, AC007686, Z86090, AC006480, AL035451, AC008372, AC005562, Z93018, AC005837, and AL021977.
HLMNM61	2775	575889	1 - 342	15 - 356	

HLMNN02	2776	920296	1 - 387	15 - 401	AA669135, A1659453, AA744875, A1418094, and N86865.
HLMNO52	2777	968377	1 - 539	15 - 553	AA115833.
HLMNQ35	2778	575906	1 - 339	15 - 353	
HLMNT27	2779	752366	1 - 290	15 - 304	
HLMNT62	2780	745733	1 - 240	15 - 254	
HLMNU73	2781	577693	1 - 443	15 - 457	
HLMNNW94	2782	577157	1 - 382	15 - 396	AA077367, AA678404, AA631482, H11448, A1018726, AW075863, A1439045, AA627180, AW080061, H57324, AA767864, AA078225, AA809049, A1751049, AA613450, A1821659, AA643451, A1A806116, F24531, A1369076, A1690497, AA558404, AA657910, A1732243, AA603432, A1903464, AW084152, C05882, AA838162, AA774006, A1537814, AA706845, AA429481, F31203, H69179, AA658018, AW409692, AA507526, AW069227, AA640252, AW074839, R33826, A1694178, AA683154, AA372881, A1251576, A1634187, AA720750, AA985145, AW117831, AA728890, A1306232, AA482786, A1457313, T98651, A1339302, A1583466, M60806, AC007225, AC005412, AC006050, AF042084, AC000050, AL031681, AL022336, AC009363, AF111167, AC008008, AL023575, Z82976, AC005245, AF031077, AC004152, AR060471, AC005295, AL031427, AC007205, AC004975, AC005839, AL079301, AL031602, AC004662, AC007227, A1251973, AC005006, U65406, AC004856, AC009247, AL096791, AC005231, AC002040, Z67997, AC007421, A1022166, Z83820, AC006312, U29953, AC004596, AC004134, AC004983, AC008119, AC009399, AC005740, Z68226, AC004878, AL049697, AC002550, AC004143, AC003109, AL021368, AC005355, A1006998, AL133241, AL121769, AC004019, AC006480, AP000967, AL031670, AC007676, A1021937, AC004962, AF200465, AC005399, AC008012, AC018725, AC006512, Z82097, AC004967, AL008734, AC005902, AC006597, AL009182, AC004016, AC004796, AC003964, AP000547, AL009181, AC005747, AC006581, AC007040, AC007312, Z93023, AC005615, AC002036, AL078581, AL022098, Z85986, AC005670, AP000354, AC006014, AC005514, Z82198, AC005895, AB020860, AL031735, AC005089, AC006112, Z82172, AL132777, AL049874, Z85988, AC005071, AC006211, AL049631, AF002223, AC004447, AF170815, AC004007, AL049557, AC003687, AC007993, AC007968, AC004492, AC004030, AC006084, AC005838, AJ000219, D89927, AC002400, U02047, Z92542, AC004535, AL031588, AC003686, Z81450, AC004820, AC004652, AC006505, U91321, U95740, AB023049, AL033547, AC006388, AC005202, AF121781, U73169, AC006213, AP000228, S83170, AF196969, AF031075, AC006160, AC004528, Z95116, AL035079, AL022316, M37468, AC005863, AC005548, Y11107, AC004798, AL096755, AP000140, AC005488, AL078583, AC005924, AL031053, AL021878, U52112, AC006205, AC007435, Z69667, AC004589, AC002310, U63630, AF146367, Z99755, AC003104, AF124523, AC008928, AL049795, Z97056, AC004896, AL035045, AC006208, AC006441, AC003070, AP000088, AP000513, AL117344, AD000092, AF001552, U51022, AC007899, S77764, AP000694, AC004485, AF001549, AC005036, AC005621, AL049861, AC009248,

HLMNW96	2783	799745	1 - 303	15 - 317	AC005829, AC005694, AL121825, AC002978, Z82188, AL022318, AC007226, AF030876, Z82245, AC002492, U73647, AC007229, AC002389, AC004253, AC004099, AL049636, AL024498, AC005387, AI080242, Z81365, AC005793, AF193805, Z84469, AB015355, AL008582, AF050154, AF036405, AL133382, AL035249, AC005180, AP000403, and AC002549.
HLMNW96	2783	799745	1 - 303	15 - 317	AC005786.
HLMNW15	2784	660316	1 - 283	15 - 297	
HLMNW33	2785	702477	1 - 409	15 - 423	
HLMNW74	2786	765800	1 - 390	15 - 404	
HLNSF63	2787	509519	1 - 373	15 - 387	
HLNSG27	2788	684650	1 - 445	15 - 459	
HLTAA66	2789	503025	1 - 296	15 - 310	N62681, AW294240, H52686, AA084683, R00069, H73623, R97012, and AC004263.
HLTAA94	2790	503019	1 - 263	15 - 277	AA360344, and N43168.
HLTAI12	2791	971523	1 - 880	15 - 894	AA360440, and AA360442.
					AA902933, AA041224, AI078764, AA252233, AI373074, AW389244, AI141267, AI218278, H48161, AA235335, R76651, AI243996, AA360624, H49948, AA234675, R55221, AA011520, AA361876, AW021446, N63621, and R55222.
					AA360647, and AA361867.
HLTAI56	2792	960750	1 - 305	15 - 319	AA360498.
HLTAI59	2793	508603	1 - 294	15 - 308	AA360891.
HLTAI67	2794	578467	1 - 325	15 - 339	AA360930, T50676, F35684, AA302978, AA652868, AA878140, AA604550, AI912401, AA568204, AA570740, AA483606, AI143653, AI583142, AA846923, AA643770, AI362442, AA302661, AA297006, AW304699, AA502498, H84412, AI185394, AC002470, AC005529, AF001552, AC005324, AC005280, AF109907, AP000134, AL035400, AC004966, Z98304, AC005520, AC008072, AC002492, AC007308, AL049569, AC005081, Y18000, AP001052, AC006530, AL133246, Z95152, AC004858, AC002480, AC005821, AC003080, AC007327, AC005516, AC003982, Z97053, U91326, Z99127, AL050312, AC004383, AC012384, AL022316, AL031321, U96629, AC005913, AL050348, AL031230, AP000208, AC007051, AF053356, AL035405, AF088219, AP000503, AF134726, AC004531, AC004796, AC002429, AC004692, AC006001, AL049776, AF196971, AF038458, AL049759, AC005730, AC005874, AF134471, AP000212, AF030453, AC004622, AC000353, AC006261, AL050318, AL022313, AC006111, AL021453, AL049538, Z98884, L44140, AC004263, AC005180, AL096791, AC008273, AC004253, Z98048, AL023803, AC007686, AL022320, AC007637, AF111168, AC006040, AF111169, AL139054, AC005839, AL031291, AC007993, AL031295, AC009516, AC005755, AC004805, AC005231, AC007225, AB001523, AC002558, AP000113, AC005089, AC005822, AL022165, AC005041, AC007204, AP000088, AC006539, AF196970, AC003101, AL121603, AL022311, AL035086, AC007151, AP000359, AC005360, AL096701, AL049872, AF047825, AL034351, AC005189, AL034549, AC004644, Z83822, AC002565, Z93017, AC004854,

HLTAT22	2796	508592	1 - 314	15 - 328	AC004098, AP000228, AC006597, AC004668, AC020663, AC005488, AL031680, AC004876, AC009044, AC000134, AL031432, AL022067, AC005412, AC004542, AC004491, AC007664, AC002094, AC006026, AC007371, AC005086, AC004526, AC002072, AC002477, AC004851, AL049780, AP000140, AC002544, AC004859, AP000350, AC004382, AC006312, AC008115, AC005625, AC005914, AC006480, AC004964, AB020868, AC004882, AF024533, D87675, AF196779, AP000298, AC006064, AL049843, AL022336, 783844, AL096678, AC002425, AC006088, AL031279, AF039906, AC002997, AC008044, AL021155, I34294, AC003110, AC003663, AL117694, AC007676, AF196969, AC004584, AC006241, AC006388, AC005920, L78833, AC006101, Z98051, AC004797, AJ003147, AC002316, Z83826, AC004821, AC005082, AF030876, AL031685, AC005531, AC005844, AL034548, AL079342, AP000704, AC004150, AC007055, AC005736, AC007226, AC004752, AC006125, AC006305, AL022329, and AC006254.
HLTAT93	2797	575133	1 - 360	15 - 374	AA360946, and AA361888.
HLTAU67	2798	703103	1 - 337	15 - 351	AA360810.
HLTAW36	2799	536674	1 - 289	15 - 303	AA361018, AA361017, R58095, AA332883, R57856, and AF023244.
HLTAW69	2800	753707	1 - 585	15 - 599	AA361102, AL440178, AF039235, AA315994, AL916936, and AA358918.
HLTBL46	2801	508925	1 - 494	15 - 508	AA361122, and AL433714.
HLTBN29	2802	703295	1 - 452	15 - 466	AA361407.
HLTBO49	2803	839804	1 - 345	15 - 359	AA361696, AC003026, AL109613, AL121653, AL109758, and AC005378.
HLTBU04	2804	928005	1 - 430	15 - 444	AA361716, AA361734, C14792, C15837, C15309, C14683, C15809, and AC005670.
HLTBW51	2805	522881	1 - 340	15 - 354	AC004990.
HLTBX34	2806	856609	1 - 244	15 - 258	AA361956.
					AA362009, AA339932, AA507975, AL921692, AA230221, AA610255, AL274006, AL567831, AL445768, AL340858, AA586553, AL889648, AL613487, AL336206, T08386, AA774119, AA470490, AA362440, F16409, R79396, AA828613, AL434103, AW407007, AL124558, H01852, AL114645, AA358531, AA829693, AL038842, AA525238, AA112864, D25667, AA655037, AL134332, AA523718, AL744890, AL744381, R48980, AA661554, AW169469, AA157876, AL752977, AL554399, AA046906, AL446574, AA446931, AL636422, AA828840, R64110, AA729004, AL620354, AW338633, AL799683, AW070901, AA640661, AA657544, AL038841, AA551030, AL078143, AW028376, T16147, AA468289, AL732682, AA196287, AA010265, AA65464, AC004922, AC003092, AL031118, AC002310, AC006088, AC005602, AC005003, AC006449, AC005520, AL049562, Z82246, AC005920, Z82182, AC003688, AC004674, AC004242, AC006001, AC005971, Z82203, Z99716, AC005924, AC005822, AB014532, AC008115, AL121653, AF196779, AC006441, AC005696, AL023807, AC009248, AL031295, AC004491, AL022318, AC005591, AL024498, L44140, AC007066, AC007934, AC007229, AC003037, AL031848, AC005598, AC007201, AC007314, Z98044, AC005747, AC005519, AC012627, AL035681, AL035587, AC002400, AC006160, AC005399, AL139054, AL031577.

HLTCL66	2807	417344	1 - 404	15 - 418	AC005753, AL023880, Z97056, AF111169, AL022316, AC004686, AL132992, AC004765, AL133448, AF088219, AC007376, AC005261, AR036572, U91328, AC005015, AC005253, AC004025, AC004019, AC000046, AC000038, AC005744, AL117329, AL109827, AC004913, AC005618, AF111168, AL031670, AC005785, AC005200, AC004816, AP000689, AC004832, AL022320, AL035411, Z83820, AC005368, AP000553, AC005280, AC009516, Z98048, AL080243, AP000514, AP000510, AC004263, AC005049, AC004262, AC000353, AF107885, AC000025, AC003029, AC000041, AC005911, AL049650, AL034451, AC004477, AL031575, AC003046, AC003102, AL049569, AC006511, AL031591, AB023048, AP000512, AC004668, AL136363, AB019438, AC006261, AL049761, AC002477, AC005225, AC009464, AC002456, L78810, U18270, AL023879, AC002991, AC006101, AC007537, Z98749, AL008721, AF001549, AC005695, Z74619, AC006959, Z82198, AL049869, AP000704, AL049743, AC005365, AC000048, AF038458, AC005011, AL133245, AC007686, AL031681, AF011889, U91318, L34079, AC004812, AL049781, AC004067, AC007308, AL009179, AC006130, AP000065, AC006121, AL080317, AC007421, AC007207, AP000210, AP000132, Z96074, AL021154, AL020997, AC005914, Z86090, AP000555, AL008582, AL023798, AC006251, AJ243213, AC002553, AL122020, AC004893, AC004682, AC005531, U91323, AB003151, U91327, AL022067, AF001550, AC005013, AL109956, AC004876, AC002418, AL078638, AL034420, AC005755, Z95114, AP000513, AC005527, AC004156, AF023456, AL031005, AC002369, AL110502, AC006162, AC007051, AF195658, AC004386, AC005993, AC003007, AC005632, AC003982, AL096791, AB023049, AC007919, AC002546, AC005099, Z69374, AF000557, AL121595, AC004783, AC003086, AF109076, AL031666, AL031177, AC004051, AC007216, AC006538, AC005089, and AC005358.
HLTCM12	2808	888630	1 - 346	15 - 360	AA845560.
HLTCQ51	2809	725845	1 - 660	15 - 674	AA361368, and AA361192.
HLTCR55	2810	839556	1 - 576	15 - 590	
HLTCT75	2811	766511	1 - 337	15 - 351	H90265, N92020, T85748, AA487719, and H56560.
HLTCU58	2812	625309	1 - 352	15 - 366	W32922, and AI814997.
HLTCV43	2813	715525	1 - 355	15 - 369	AW451945, AA926743, AA361764, AI082182, AI653128, AI873281, AA608839, AI610135, AW367467, and AB033038.
HLTCV57	2814	535289	1 - 185	15 - 199	
HLTCV63	2815	574712	1 - 189	15 - 203	
HLTCZ25	2816	574704	1 - 110	15 - 124	AW134673.
HLTCZ37	2817	574705	1 - 413	15 - 427	
HLTDC32	2818	574699	1 - 274	15 - 288	
HLTDC80	2819	574698	1 - 353	15 - 367	

HLTDD44	2820	522698	1 - 146	15 - 160	AA362014, and AF053630.
HLTDD62	2821	571328	1 - 263	15 - 277	AL034343.
HLTDE78	2822	856603	1 - 293	15 - 307	
HLTDK54	2823	574714	1 - 302	15 - 316	AL096816.
HLTDK64	2824	772378	1 - 325	15 - 339	AA884484, and AC007068.
HLTDL71	2825	508932	1 - 242	15 - 256	AA361503, and Z96050.
HLTDT14	2826	973100	1 - 296	15 - 310	
HLTDY57	2827	934619	1 - 535	15 - 549	
HLTEA13	2828	971722	1 - 669	15 - 683	AF118078.
HLTEE40	2829	711453	1 - 221	15 - 235	AI904944, AA326452, AA135988, AA857812, AI799421, AA878407, N70449, AA831801, AI798041, AA714073, AA320105, AI419337, AI361090, AA302978, N23919, H93152, AA371410, C14330, AA577824, AA626829, AI421950, N75708, AW089550, AA832016, D51877, H67064, AA279385, AI114557, AA017690, AA326904, AW026305, AA719111, AA135811, C16358, AI914713, H43183, AA296604, AI270120, AW019964, AI886736, AI908508, AA092704, AW381198, AW381196, H79586, AA586433, H71738, AI054244, AI671077, AI431513, AA021139, AA381762, AA828867, R83068, AI609972, AI040430, AI580707, AW079809, AI583344, AI908525, AA828047, AI865776, AA558404, AA553570, AA338623, AI791718, AA862029, AA610255, AI192463, AW163763, AA364420, AA367788, AW089783, AA569597, AL041375, AA077776, AI797998, AI102737, AA324088, AI283938, AI185394, AI819391, AW390309, AW247389, AA854460, AI279417, AW265279, AA728861, AI538818, AA745543, AI889579, AL120976, AA385775, T60699, AA326330, AW265276, AA553900, AA565319, AA228778, AA152253, AI423018, AA834799, AI679413, AA487569, AI349130, AA608520, AA493789, AI445373, R67701, AI889705, T93109, AA937809, AA136477, AW002831, AA730488, AW008184, AA525331, AA502098, AI609574, AW340937, AA847413, AW300749, AA745628, AA365980, AA658934, AA378474, AA805573, AA384911, AI696550, H91704, AI310670, AA074351, R93854, AI927393, AA593471, AA493447, AL118925, AI750125, U85195, AE000658, AF047825, AC005086, AP000350, AF038458, I34294, AL023807, AC002400, AC006011, AC005971, AC005484, AC006511, AL027271, AL031427, AC009247, Z98047, AC006344, AC004883, Z83845, AC007384, AP000704, Z97181, AC004707, AL022320, AC006449, AC004882, AL049843, AC002425, AC004905, AC018633, Z73359, AC006996, AC005215, AL121653, AL034420, AC004263, Z93930, AL133382, AP000008, AL109952, AC004966, AP000504, AL031589, AL139054, AL049548, AC004881, D87675, AC002395, Z82206, AC007774, AL031230, AC005529, AF111168, AL049694, AL035072, AC006160, AC005081, AL049845, AC005630, AC004797, AL050350, AC005015, Y15994, AL008635, AC007676, Z98051, Z82976, AC004884, AL035460, AC007055, AC005602, I47234, AL096703, AC005306, AC006132, AC007637, AL049776, AP000030, AC008928, AC005924, AL121603, AF129756, AL133246, AC007160, AC002316, AC005476, AL109827, AC000075, AC004471,

HLTEF24	2830	871203	1 - 135	15 - 149	AB023049, AC004880, AF111169, AL031666, AC002073, AC003688, AL121652, AP000212, AP000134, AC007878, AP000251, AC006130, AC005519, AC004975, AC005071, AP000553, AC005664, AL132777, AF106656, AC003030, AC005690, AC007308, AC005759, AC004382, AC002543, AL034423, AP001138, Z94161, AF207550, AL031662, AC005345, AL022476, AL031311, AL022318, AC005274, AC002430, AC002128, AC002470, AC005777, AF024534, AC005221, AC005412, AC004025, AC000052, AC005037, AC005599, AC005261, AC007395, AC004913, AC005057, AC007880, AC005514, AC005291, AC004821, AC005914, AP001051, Z98036, AF030453, AC004526, AC007051, AC004812, AL031985, AL022313, AL132712, AC005372, AL023575, AC005091, AC005837, AL031678, AC002477, AF196779, AL133245, AC004785, AL135879, AL121790, AC007919, AC007546, AL035405, AL031393, AC007227, AC004753, Z98747, AL024498, AL049793, AC005696, AC006538, D28126, AP000065, AL031846, AC016025, AC002375, AC004900, AC004217, AC004819, AL049781, AC007656, L78833, AL031228, AC005088, AC016027, AL033525, AL021391, AC004605, AC004019, AP000114, AL117693, Z93783, AF067844, AL031295, Z93844, AL031286, AC000379, AL049745, AC007934, AD000091, AC016830, AC005067, AL031283, AC005730, Z98884, AC006547, AC006480, AC002369, AL022302, AC007030, Z83856, AC006120, AC005695, AC005180, AL031685, AC006473, AC004000, AL031657, AF134726, AC005874, AF134471, AC000025, AP000512, AC005011, AP000432, AC005624, AC003966, U82828, AC005796, AL096701, AC004895, U07562, AC006241, AC004130, AL049779, Z69890, AL034429, AL050308, AF045555, AD000684, AC005606, AL135744, AC006367, AP000141, and AC007684.
HLTEF24	2830	871203	1 - 135	15 - 149	AA826368, and L78833.
HLTEI47	2831	720474	1 - 588	15 - 602	
HLTEI53	2832	723405	1 - 306	15 - 320	
HLTEK94	2833	793033	1 - 348	15 - 362	R63716, AA160481, AL191227, H40386, H48636, AA199616, R97634, AA226153, AA503119, T10560, AL266133, N67592, T92445, AL923480, AA701121, AA665021, H58178, AA564859, AL049707, AA569187, AL923140, AL340500, AA084337, AW157326, AL281754, AA586441, AA713534, N58586, AA831388, T40617, AW340821, AA650434, AA713762, AA713933, AL400213, AC005514, AC005971, AC003051, Z86090, AC006965, AC006241, AC002115, AL031447, AC004990, AC007327, AP000297, D49685, Z95152, AC005940, AC004474, AL023579, Z69921, L48473, Z98050, AL031714, AB029900, AL034401, Z49154, Z82184, AC000094, AC003968, AC000081, AL109854, AL023879, AL023694, Z83819, AC004041, AC005600, AC005250, AF015416, AC003099, AC012599, Z99297, AC005006, D87009, AC004748, AL034402, AC006254, AP000884, AC003998, AC005844, AC005969, AL022574, AC006318, AL035413, AC005245, AC007091, AC002460, AC004106, Z99716, AC007016, AC006285, AC006211, AC016025, AP000044, AP000112, Z60589, AD001502, AL021391, AL050031, AC004647, AC004076, AC003002, AL049552, AL109939, AC004638, AC007243.

HLTEL11	2834	967529	1 - 319	15 - 333	AC004400, Z69917, AB020858, AF130343, L42240, AC004149, AC006026, D26067, L05367, AF151679, AP000294, D87015, Z81000, AF037338, AC005853, Z70688, AC000082, AC004257, AP001063, AL080238, AL049741, and AL022575.
HLTEL25	2835	508607	1 - 231	15 - 245	AA360683.
HLTEL59	2836	851867	1 - 687	15 - 701	AA664604, T77882, A1271985, AW084100, AA857812, A1421950, AC002511, AC002997, AL022316, AC003037, AL049759, AL049776, AL049829, AC006538, Z98884, AF002223, AC006121, AC007193, AC007055, AC004878, AC005324, AC005512, AF196969, AC002544, AC004020, AC007182, AC005071, AC005971, AL133245, AC004148, U91326, AC007227, AC006449, AC005015, AC002316, AC005233, AL133371, D87675, AL080245, AL049872, AC005531, AC006064, Z68165, AC007066, Z83847, AC005913, AF030876, AC005399, AC003101, AC004491, AC006241, AC002310, AP000141, AC003029, AC007707, AC007216, AC005736, AC006111, AC009516, Z85986, AL096791, AF205588, AC005363, Z86090, AL050338, AL022320, AC005529, AC005057, AC016027, AC006013, AC005041, AF001552, AC004918, AC007308, AL031281, AC016830, AP000689, AC007075, AC005231, U91321, AL117337, AL049780, AL031311, AC004832, AC005237, AL008718, AB003151, AC003684, AC007226, AF111167, AC002425, AC004217, AC004644, AC002553, AT023575, AL022311, AC007151, AC005291, AC007546, AP000704, AC006464, AP000505, AC004821, AC007686, AC002470, AC004084, AL022238, AL031283, AC004859, AL109801, AL035422, AC003006, AF207550, AC002492, AC006071, AL033521, AC006023, AC004858, Z99716, AC005300, AF129756, AL035587, AL135744, AL034402, AL080243, Z98752, Y14768, AL139054, AC005667, AP000557, AC000159, AC005261, AP000113, AC007676, AL096761, AC004675, AC005562, AF165926, L78833, Z97053, U07563, AP000512, AC005412, AC007041, AC004686, AC002301, AP000130, AC004883, AC007993, D28126, AL033392, AC004531, AC003663, AL008582, AC005874, AF134471, Z83838, AC004209, AC005102, AP000208, AC005740, AC004895, AF088219, AL021546, AC004587, Z97054, AL121825, AC004887, AL049569, AC005004, AC004656, AC004967, AC005940, AC002039, Z84466, AC002477, AL031005, AP000556, AC002059, Z95114, AL021920, AL021578, AC005696, AC004150, AC006014, AL121658, D86992, AC006141, and AP000045.
HLTEO88	2837	955228	1 - 321	15 - 335	
HLTES50	2838	958906	1 - 299	15 - 313	AL121868, Z45382, AL273004, AA018678, and AA814210.
HLTES59	2839	739412	1 - 260	15 - 274	AC006323.
HLTEX10	2840	968060	1 - 289	15 - 303	
HLTEX38	2841	573353	1 - 287	15 - 301	
HLTEZ24	2842	572779	1 - 456	15 - 470	AA361279.
HLTEZ33	2843	574634	1 - 344	15 - 358	
HLTFA05	2844	932221	1 - 539	15 - 553	

HLTFA34	2845	703403	1 - 202	15 - 216	AI431786.
HLTGF04	2846	927449	1 - 1580	15 - 1594	AA813267, AW341552, AA878516, AA612649, AI935832, H17239, AA213623, AA720884, AI621368, Z44756, N74953, T75192, and R37793.
HLTGF55	2847	669071	1 - 424	15 - 438	AA705418, AA682828, N64118, AI940034, AA987277, AA340035, AA484366, AI982809, R60108, T90092, AA918258, AW337710, AA643794, AI348199, H02927, T63790, AC005538, AP000512, AC002394, AC007151, AL021707, AF207550, AP000295, AI008718, Z85987, AC008044, AL035458, AP000044, AP000112, AB023051, AC004448, AC002563, AL133485, AC007216, AC005071, AC007226, AC005291, AC004967, AC007425, AC005529, AL022476, AC007845, U08988, AC003666, AC007057, AL031681, AL022721, AL035090, AC006544, AC004779, AC004216, AL031390, AC008008, AC005163, AL109984, AC005377, AC022517, AC002997, AL121825, AL132777, AC005921, and AC004228.
HLTGG25	2848	677696	1 - 296	15 - 310	AC005037.
HLTGG61	2849	741529	1 - 510	15 - 524	
HLTGM60	2850	973438	1 - 456	15 - 470	
HLTGP51	2851	725140	1 - 421	15 - 435	AC004757, AC005962, AC004821, AL031985, AC004491, AL133500, AC004149, AC004895, AC007637, AC004671, AC005768, AL021546, AC004131, AC003108, AC016027, AC016830, and AP001054.
HLTGP63	2852	744700	1 - 415	15 - 429	
HLTGS44	2853	716323	1 - 440	15 - 454	H90456, AA284708, AA805701, AI380487, AA203607, AI810648, AI829784, AI765051, AI126802, and AI367405.
HLTGV54	2854	729247	1 - 393	15 - 407	AW205342, AA394225, AA398138, AI189026, AA283901, AI088021, AW196580, and AA504369.
HLTGV64	2855	665647	1 - 399	15 - 413	AA992324.
HLTGV67	2856	747584	1 - 417	15 - 431	
HLTGX26	2857	681233	1 - 327	15 - 341	
HLTGY75	2858	767060	1 - 338	15 - 352	AC004921.
HLTHC34	2859	702078	1 - 411	15 - 425	AC008062.
HLTHH89	2860	974112	1 - 439	15 - 453	
HLTHI11	2861	966435	1 - 650	15 - 664	AI246061, AA324919, AI801563, AI054090, AA838192, AI539822, AA419225, N27874, AI048479, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA557911, AI673038, AI292275, Z97630, AC007688, AC007283, AI022311, AL034553, AL109628, AB003151, AL109758, AC005837, AC004955, AC005844, AP000689, AC003689, AC004531, AC003010, AC005808, AL020997, AC005531, AL008730, AC007263, AP000116, Z93020, AF001551, AL118516, AC003108, AP000049, AC007226, AP000311, AC006115, AC007738, AC003663, AC006251, AC007051, AL049743, AC007934, AC002398, U95739, AC002301, AP000152, AC006449, AL109627, AC002091, AC002395, AC004234, U91321,

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HLTHJ35	2862	707245	1 - 529	15 - 543		
HLTHJ68	2863	719927	1 - 282	15 - 296		
HLTHO15	2864	969356	1 - 241	15 - 255		TS5452, T55533, T64583, T86962, R17130, R43223, R43223, R69530, R88169, W16432, AA001405, AA010287, AA010286, AA039982, AA040629, AA262779, AA262859, AA429842, AA429866, AA280051, AA470454, AA535802, AA583001, AA602082, AA602149, AA568998, AA577257, AA738040, AA769367, AA814611, AA815126, AA826473, AA827081, AA878242, AA928604, AA932452, AA976602, F18808, AA654132, AA417049, AA417180, AA609614, AA724635, AA835419, AA838750, AA854117, AA854205, AA772546, AA868928, AA772706, AI002704, AI092675, AI092814, D19911, Z38531, Z42297, AA682392, AA699613, AI241962, AI249764, AI284418, AI368959, AI216755, AI399983, AI475899, AI566500, AI579914, AI125509, AI126523, AI128828, AI129502, AI143123, AI627758, AI168615, AI200776, AI620397, AI690783, AI701961, AI873590, AI805591, AI935907, AI951767, AW007590, AW009555, AI985824, AW024442, and AW082810.
HLTHO31	2865	697550	1 - 251	15 - 265		AL049610.
HLTHO46	2866	923482	1 - 291	15 - 305		
HLTHS75	2867	965126	1 - 470	15 - 484		AW173354, AF049559, AF049553, and AW386843.
HLTHV83	2868	780482	1 - 824	15 - 838		AA307492.
HLTIJ72	2869	968986	1 - 493	15 - 507		
HLTAA21	2870	671074	1 - 703	15 - 717		AA042852, AA044402, AI671077, AI801505, AA356376, AI828669, AA837771, AL042735, H54252, AA565232, AW272599, H43183, F31867, AA445908, AA904211, H53284, AA513884, AA662614, AI280266, AI355246, AA569715, AA552724, AW019964, AI246386, AI249688, AA374797, AA630245, AA584493, F35684, AI915081, AA058312, AW265688, AW302081, AI870453, AA493947, AA493789, AA586433, AL039309, AA284247, AA584484, W81372, W02749, AI612810, AA584800, AI580707, AI198718, AI923052, R93919, AI567391, AA811954, AI038304, AA728938, AI253987, AI282629, AI802804, AW051819, AL041352, AI754567, AI569100, AW192599, AA515351, AA658934, AI754105, AI755214, F33037, T69571, AI609972, R86977, AA302982, AA558404, H65213, AI080307, AI061619, AA937809, AA678472, AA557790, AA665181, AA746911, AW403829, AI310464, Z98474, T62078, AW419389, AW303142, AW275432, AI587467, AL079734, AI912401, AA376520, AI190648, AA349937, T95676, AA659048, AL034420, AC004822, AC004760, AC005859, AF112441, AC005534, AC004651, AL078603, AL049570, AC005206, Z69922, AC007546, AC004167, AC005667,

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HLVAA41	2871	909874	1 - 819	15 - 833	AI074002, AW014573, AA326846, AI084046, AA070889, AW194509, H44725, AI241812, AI624543, W45039, AI273179, AI564245, AA903221, AI270448, AI923509, AI560536, AI045163, AI361701, AL039276, AI886440, AI476086, AI285732, AW085799, AW189802, A45787, E12888, AL122049, AL133607, AL133053, AL133049, AL133015, and AL133608.
HLVAA44	2872	964841	1 - 362	15 - 376	R02835.
HLVAB02	2873	920407	1 - 333	15 - 347	
HLVAB38	2874	861161	1 - 444	15 - 458	U81830, and AC007450.
HLVAC38	2875	668989	1 - 259	15 - 273	AI243319, AI288451, AI521658, AW301143, AW444808, AI417213, AI056464, AI827213, AI925715, AI085752, AI913241, AA693938, AI869312, AI122654, AA937953, AI922008,

						AI394394, AI432336, AW451297, AI123244, AA736786, AI742610, AA522674, AA603325, AI425075, AI094469, N94395, AI742621, AI445367, AI420510, AI866676, AI963292, AA627433, AI356146, AA968590, AI872656, AI222629, AW167511, R69552, AI194056, AI803734, and Z38818.
HLVAD10	2876	964845	1 - 583	15 - 597		
HLVAF20	2877	576449	1 - 459	15 - 473		
HLVAF20	2878	668872	1 - 715	15 - 729		AA195902, D81936, AW373648, H72932, AW373647, AW393531, AW373665, AA278187, and AA284401.
HLVAF28	2879	975007	1 - 633	15 - 647		Z99396, AW392670, AL134920, AW372827, U46341, AW363220, AW384394, AI119355, AL119319, AL119457, AL119497, AL119483, AL119324, AL119443, AL119484, AL119363, AL119391, U46349, AL119341, AL119335, AL043029, U46351, AL042984, AL119522, AI142137, AL134531, AI142131, AL042975, AL042433, U46350, U46347, AL119444, AL042973, AL119418, AL037205, U46346, AL038520, AL037526, AL119464, AL036190, AL036268, AL036767, AL037077, AL036774, AL037021, AL037027, AR060234, AR066494, A81671, AB026436, and AR054110.
HLVAG42	2880	691747	1 - 419	15 - 433		
HLVAF26	2881	855981	1 - 569	15 - 583		AW370369, AA825207, AI379831, AI224367, AW292092, AI832007, AI250843, AA825205, AI434322, AI250350, AW003249, AF110467, AF110466, AF137027, AF110465, AB025274, and AB018563.
HLVAK12	2882	970807	1 - 283	15 - 297		
HLVAL83	2883	780075	1 - 469	15 - 483		AI990837, AA630857, AA630888, AA907192, AI283022, AA318347, AI891038, AI821307, AA349881, AI951933, AW129165, AA487512, AI298557, AA776684, AA745570, AI749306, AA614647, AA492266, H96580, AA827080, W80853, AL135674, AI889426, AA302966, AI285709, AL023584, U92032, Z84489, Z77249, AC004821, AC002477, AC004520, Z93023, AL023807, AL109963, AC006001, AL035071, AL021807, AC005057, AL109628, AL031577, AL096701, AC004841, AL133355, AL117354, AC005901, AC006084, AC004999, AC004985, AL109984, AL024508, AC004472, AL133353, AL132641, AC005225, AL031666, AC004129, U62293, AL109758, AL021578, AL033525, AL050318, AL133448, AL022320, AL008715, AL033527, AP000694, U89337, AC004531, AC004067, AC004820, AC006312, AL096791, AL049871, U85195, AL035450, AC005365, AL109952, U80017, AE000658, AB014079, AL133382, D26141, AC004500, AC004527, AC005320, AP000510, AL022329, AC006026, AC004836, AL080317, AC005011, AL132987, AC005684, AF195658, L44140, AC007792, AL008718, Z98941, AF017104, AL117337, AL049745, AC004491, AC006241, AL133163, AF006501, AL034345, AL031587, AB023048, AL133245, AL109623, AC000379, AC004035, AC005362, AC007666, AC003026, AC004587, AC004217, AC004263, AC004196, AF205588, AC005393, AL022162, AL031277, AC003471, AC009330, AP000113, AP000045, AC005722, AC002365, AL031602, Z84484, AC006050, AC005200, AC012599, U95742, AC005089,

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HLYAO31	2884	698104	1 - 463	15 - 477	Z26982.
HLYAO67	2885	924042	1 - 699	15 - 713	AI143897, AA028192, AW294571, and AC003963.
HLYAP10	2886	964748	1 - 418	15 - 432	
HLYAP26	2887	681892	1 - 462	15 - 476	
HLYAQ80	2888	868396	1 - 615	15 - 629	AI049909, AI828669, AA167506, AI678676, AC005049, AL049830, Z99127, AL139054, AC007308, AC003982, AC005331, AC005764, AC007565, AC006581, AL021578, AC006064, AC007637, AF047825, AL031431, AC006950, AC016027, Z92542, AC016830, AC004024, AC005015, AF111167, AC002565, AC005391, AL117354, AC009516, AC004560, AC004000, AF038458, AC005138, U91321, AC004587, AC002984, AC005778, AC005081, and AF165926.
HLYAT56	2889	935552	1 - 517	15 - 531	
HLYAU29	2890	576596	1 - 502	15 - 516	AI718516, AI763431, AI027846, AI631498, AI809845, AI971984, H87213, AI365352, AI383486, D25764, H87214, AI762280, and AC002112.
HLYAV80	2891	689969	1 - 691	15 - 705	
HLYAW35	2892	780987	1 - 373	15 - 387	AW449907, AW387328, AW387332, AW387333, AW387341, AC005332, and AC005562.
HLYAX61	2893	707248	1 - 332	15 - 346	AC002480.
HLYAX85	2894	575868	1 - 379	15 - 393	AI760371, AL117470, and AB023143.
HLYAY62	2895	825513	1 - 356	15 - 370	
HLYAY65	2896	575863	1 - 309	15 - 323	AI216626, AI807710, and AL031393.
HLYBA01	2897	916635	1 - 464	15 - 478	AI370263, AI472733, R98652, T52997, AC004882, AC005529, AC005821, AL024495, AC004216, AP000260, AC005291, and Z84467.
					T47732.
HLYBA42	2898	871648	1 - 753	15 - 767	
HLYBA72	2899	717644	1 - 462	15 - 476	
HLYBA85	2900	575878	1 - 462	15 - 476	

HLYBA96	2901	575834	1 - 470	15 - 484	
HLYBB50	2902	708624	1 - 486	15 - 500	
HLYBB65	2903	866883	1 - 645	15 - 659	<p> A1820992, AW105729, AA744993, A1003988, AA635433, AA687542, A1049630, AA015948, A1572680, A1358513, AA862029, A1283938, A1445699, H86399, AA515924, A1302350, H27788, AA302978, AA526658, H47736, AA526659, A1282479, A1061313, AA364082, A1049504, AW079667, A1591134, AA244181, A1678476, AA715351, AA728861, A1254779, A1590404, A1123214, A1702049, N55076, A1805699, AA862312, F17537, AA573000, A1751191, F23221, AA297789, AA846014, AA218684, AW265468, AA084320, A1143653, AW129188, A1049680, AA018258, AA650528, AL047349, R93233, A1446336, F29968, AA300049, A1002863, AA636077, A1268818, AL138262, A1799421, A1032411, H91062, A1679759, AA807704, H91704, AA278496, AW192930, F08866, A1520925, N78600, F36200, AA832124, AW192518, AA604149, AA668421, AA768179, AL121039, A1150934, AA147521, H91358, A1310343, AA342238, A1619994, A1174703, F31811, AA130696, AA342626, AW243945, AW157128, H91672, AW410844, A1040051, AA598740, AW148821, H59856, AA769481, A1065043, A1254267, AA010265, AC005632, AF049895, AF001549, AC005031, AP000555, AF069291, AC006538, AF111168, AE000658, AL031295, AF088219, U80017, AC000353, AC004083, AC001643, AL049835, AC005288, L47229, AC005971, AC004033, AC005500, AL096701, AL035681, U02057, AL109956, AC005666, L47227, AC011456, AC005682, AC005913, AL109798, Z98051, AC004663, AL022316, AP000501, AL049757, AC005730, AC002991, L47222, AC004151, AP000469, AL080317, AC004897, AC005409, AF064861, AC005231, AC005157, AC004882, AC005856, AC005529, AC006162, AL079295, AL080243, AC008018, AC004216, AL133289, AC006536, AC005828, AC003688, AL035587, AC006360, U85195, AL031347, AP000503, AR036572, U91328, AL035420, AC009516, AC007993, AC004985, Z82172, AC005722, AC005081, AC004966, X89398, AC005696, AC003665, AL049776, AC005332, AC007055, AC004253, AF045555, AC004000, AL021578, Z74739, AC000159, AC004056, Z96074, AP000010, AC005214, AC005244, AL035445, AL139054, Z97053, Z98941, AC005531, AP000030, AL023799, AL031659, AF053356, AL022721, AL080242, AC005003, AC005972, AL121603, AC005209, AC005215, AC004851, AP000152, AC005373, AL031685, AL023801, AC005924, AC004738, AL109627, AP000557, AL021155, AC005726, AC006277, AP000552, AC005365, M63796, AC006271, AL035461, AP000065, AC007766, AC004132, AL096703, AC003098, AF134726, E15652, AC005527, AL050321, AL121754, AF112441, AP000153, AC005188, Z82206, AC006385, L78810, AC007899, AC007746, AC003007, AP000011, AC001551, AC005484, E15648, AL132712, AL049845, AF038458, AP000556, AC008055, AC007919, AL121825, AL031007, AC007242, AB023048, AL022476, AC005368, AC006344, AF165926, AC006014, AC003043, AF019369, AC002544, AF109907, AC007845, AC005213, AB020866, AC004230, AC007637, AC005952, AC005057, AL049766, AC006064, AL049694, AL109853, AC006333, AC004686, AC005488, AF111169, Z93017, AL050140, AC005859, </p>

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HLYBD46	2904	575865	1 - 358	15 - 372	AW089101, AA303007, AI290405, T49633, AA864603, AI382825, AW179306, AW179305, AW380254, AI042311, F17774, AA478355, AI468899, AA679936, AI732120, AI469968, AA680243, AA329995, AA829490, AA478297, AL119649, AC004894, AC004000, L78810, AL009181, AC005291, U51244, AC006160, AL031311, AL049759, AC009542, AC004492, AC004531, AL034379, AP000228, AL021453, AP000140, AP000088, AC004063, AF147304, AP000065, AC005800, AC004087, Z82206, AC005881, AC005740, AC002287, Z84474, Z83846, AB014078, AP000514, Z97989, AC005235, U37355, U37357, U37452, L07900, U73638, AC005783, AC006077, AC005377, AC004999, Z83826, AL031650, AC004838, AC008033, AL021978, AC007664, X95586, AF065396, AF129077, AC006388, AF038458, AL031282, AL031256, AC004167, AC003957, AL049692, AL020997, AL022316, AC007263, AC004882, AC009330, U82828, AC005274, AC007308, AF053356, AC005529, AB028964, AC004644, AC006473, AL080241, AL049757, AC004813, AL049745, Z98941, AL023805, AL133241, AL031228, AC006111, AL009183, AL109984, AL008729, AL117338, AC004004, AL022323, AC005833, AC005089, AC005041, AJ007973, AC007192, AP000223, AP001051, AL031905, AJ006997, AC005519, AC003071, AC004687, AC004491, AC006121, AL008629, Z97352, AC000087, AC005206, AC005667, AC008122, AC004983, AL024498, AC007226, AC005081, and U95090.
HLYBF47	2905	706517	1 - 417	15 - 431	AA873012, and AA470597.
HLYBF75	2906	828077	1 - 527	15 - 541	AA393103.
HLYBG18	2907	575872	1 - 465	15 - 479	
HLYBH08	2908	856445	1 - 467	15 - 481	AI076697, and AI076255.
HLYBH56	2909	733472	1 - 471	15 - 485	
HLYBH91	2910	576793	1 - 464	15 - 478	H85616, H86301, H86264, AW440976, AW236342, AI312149, AI358501, AA598997, AA593060, AW072587, AW419262, AI291124, AI291268, AI537030, N27353, AA084070, AW148792, AW340922, AI824562, AA443390, AW338869, AI648558, AI003734, AA347927, AA632868, AI499094, AA059235, AL138455, AA664535, AA323749, AW193609, AI133262, AI282832, AW380074, H40410, AI625570, AA984263, H86305, AA136004, AI884487, T47739, AI676218, AA347930, H42075, AA243959, AI653886, AI339440, AA837740, AL133862, AA610786, AI192631, AI628288, R47245, AA846935, AA346454, H02631, H21449, AL135405, AA437402,

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				15 - 267	
				15 - 478	
				15 - 573	AA830761.
				15 - 1078	W87342, W87343, and A1797550.
				15 - 475	N72584, F31792, A1950359, and Z97055.
				15 - 401	AC007204.
				15 - 394	
				15 - 430	AC004056, AC007214, and AC007458.
				15 - 442	AC004227.

HL YBR41	2920	712389	1 - 631	15 - 645			
HL YBR83	2921	750318	1 - 481	15 - 495			AI769511, AI692550, AW384109, AW384104, AW384108, AW384074, AW384071, AW384068, AW384073, AW384075, Z42260, AA768582, AI681360, and AL022067.
HL YBS12	2922	970795	1 - 651	15 - 665			D78885.
HL YBT19	2923	668744	1 - 432	15 - 446			W87923.
HL YBT64	2924	527687	1 - 433	15 - 447			AI799856, and AA447275.
HL YBT69	2925	678175	1 - 452	15 - 466			
HL YBT84	2926	575828	1 - 45	15 - 59			
HL YBU28	2927	914702	1 - 418	15 - 432			H66883, W03665, and AC007068.
HL YBU52	2928	727213	1 - 463	15 - 477			
HL YBV42	2929	713837	1 - 298	15 - 312			AI094626, AW204786, AI935606, AW246712, AA336176, H92959, AI433978, AW194509, AL039276, AL045163, AI635531, AL045620, AL039421, AI923046, AI289992, and AW082113.
HL YBW12	2930	970796	1 - 423	15 - 437			
HL YBW35	2931	812692	1 - 634	15 - 648			R98218, AA570441, AI636734, AA324059, AW245354, AI446259, AA324559, AA720582, AA326603, AI358928, AA663074, AW162750, AA654482, T05834, AI929796, AL039930, AA593471, AA158549, H65679, N25304, AW078909, H94979, AW088557, AA457504, AA485343, AI049709, AI732720, AI734119, AW238712, AA364082, AI473995, AA484191, AA825827, AI064786, T08258, AW192373, AC002563, Z83826, U91323, AC004796, AC005726, AC005585, AC004832, AL031767, AC005057, AL035422, AI031279, AL021578, U78027, AI035420, AC004905, AP000355, AC003684, AF196779, AC007899, AF196972, AL021154, AC002551, AL049776, AC004821, AC005274, AC004953, AC007685, AC005484, AC007421, AL078581, AC005796, AC005562, Z93017, AC007050, U91318, AC007386, AC005940, AC003692, AJ003147, AP000356, AP000555, AC006538, AC006441, Z85996, AF053356, AL049694, AL050350, L11910, AC003043, AC004491, AL008718, AC006530, AC008064, AC007055, AL035413, AC005529, AC005088, AC004983, AL049795, AL031774, AC010170, AC002425, AC005358, AC007011, AP000967, AC007388, AC005070, AC005696, AC002312, AC005900, AL050318, AL049709, AC002470, AL109798, AL031680, AC006271, AL050307, U91321, AP000359, AL031295, Z94056, AP000128, AP000206, AP000313, AP000501, AC007225, AL050341, AC004383, AP000104, AC008116, AL135744, AF129756, AC007546, AP000050, AL021155, AL132987, AP000466, AC006427, AP000113, AP000045, AC005667, AP000117, Z99716, AC005399, AP000245, AP001053, AL009181, AC006023, AP000689, AC005206, AC004526, AF200465, AL022165, U96629, AC006312, AL133163, AC009509, AC005531, AC005924, AC004477, AL049576, AC005180, AF107885, AL132642, AC007216, Z85986, AC005520, AC005839, AP000700, AC005971, Z97034, AL049843, AC003663, AL031447, AC005921, AC002369, AC007676, AF030453, AC007114, AL133312, AC006014, AC007695, AF104455, AC004985, AL031985, AC002525, AC008044, AC006101, AC002375, AC006285, Z92844, AC006211, AF017104, AC002091, AP000557, AC005225, AC007308,

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HLVBX77	2932	721086	1 - 335	15 - 349	
HLVBX84	2933	754842	1 - 568	15 - 582	
HLVBZ17	2934	577479	1 - 373	15 - 387	
HLVBZ23	2935	856430	1 - 398	15 - 412	
HLVBZ60	2936	682675	1 - 264	15 - 278	
HLVBZ86	2937	836436	1 - 574	15 - 588	
HLVCA76	2938	770107	1 - 384	15 - 398	
HLVCA77	2939	677758	1 - 788	15 - 802	
HLVCC39	2940	710843	1 - 564	15 - 578	
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HLVCC65	2941	932727	1 - 493	15 - 507	
HLVCF12	2942	908532	1 - 361	15 - 375	
HLVCF46	2943	718930	1 - 526	15 - 540	
HLVCF70	2944	741417	1 - 399	15 - 413	
HLVCH10	2945	964354	1 - 370	15 - 384	

HLYCH15	2946	964840	1 - 363	15 - 377	R02835.
HLYCM68	2947	658540	1 - 432	15 - 446	AF070718.
HLYCM88	2948	732392	1 - 380	15 - 394	
HLYCN75	2949	761510	1 - 556	15 - 570	AA230096, and AA530904.
HLYCO31	2950	697787	1 - 312	15 - 326	AI370523, N23255, AA074026, N27657, R66922, AW085624, AA579437, AI114828, AA382130, AA190418, H64735, AA491864, AA488846, AI350460, AI765684, T24020, A1092694, AA405463, AI375472, AA443663, AA577770, AA174138, AI241173, M77904, AA338281, AA465689, N21546, AI127067, AI916406, AW103010, AA584123, AA436155, AA436281, AI587537, AA812684, AA583390, AI811345, AA906657, AI065029, AA715389, AI439045, AI278256, R70326, H75272, N53132, AA910215, AI052493, AA736485, AA461430, AA805014, AA205743, AL048023, T68597, N25819, AL031774, AL022171, AL133485, Z84484, AL022067, AC004021, AL049738, Z83855, AC005844, AL022312, AC004000, AC007676, Z93017, AC004583, M63420, AC005354, AC004264, AL035410, AC005088, AC005562, AC004231, Z84489, AL035413, AC000353, AL035420, AL137457, AC004861, AL021878, U73479, AC004560, AF107045, AC005387, AL031255, AP000068, AL031848, AC005544, AC007327, AC007842, AC006241, AC004223, AC004167, AL135744, U62293, U63721, AC005057, U46120, AC005253, Z82097, AL008635, AL009031, AC002326, AC004770, AC006017, AC004797, AP000502, AC005393, Z95329, AC005412, AP000501, AF196970, AC004382, AF141308, U93037, AC002116, AC007201, AC000086, X55448, AC006030, AC002369, AP000008, AC005049, AC006088, AP000704, AC005833, AC004585, AL031985, AL034419, AL034549, AL022316, AC002454, AC005988, AL022165, L11910, AC009263, L44140, Z49258, AP000350, AL118509, AP000510, Z84466, Z97054, AC004458, AL031681, AC004106, AP000564, L05367, AC004132, AC006084, AL109984, AC002477, Z98044, AC005225, U52112, AC005920, AL121652, AC005529, AP001053, AC006312, AD000813, AC004839, AC002420, AF045555, AC004876, AL031056, AC005081, Y10196, AC006043, AL035079, Z95116, AL133304, AL049745, Z49250, AF053356, and AL121655.
HLYCO66	2951	785990	1 - 295	15 - 309	AA918361, AI214209, AI820877, AI733217, AI346354, H65493, and AL031666.
HLYCO68	2952	729293	1 - 485	15 - 499	AW292970, AC004645, and AC006111.
HLYCP66	2953	706435	1 - 651	15 - 665	AA251713, AF080576, AA281037, T49826, T49825, and AC007041.
HLYCQ53	2954	728046	1 - 680	15 - 694	AL022098.
HLYCQ68	2955	752887	1 - 355	15 - 369	AI288307, AI186282, AA523891, C75540, AL037127, AI193168, AW407585, AA112924, AA458534, AA515631, AI613465, AA911520, AA001471, Z99943, AL031681, AC002364, AC005952, AC005670, AL033538, AC016027, AC016830, AC004955, Z83840, AL031848, AC005803, and AL050327.
HLYCR47	2956	850147	1 - 824	15 - 838	AW236220, T92688, and AA341978.
HLYCS15	2957	660006	1 - 371	15 - 385	
HLYCV49	2958	718840	1 - 294	15 - 308	

HLWCW04	2959	615021	1 - 336	15 - 350	
HLWCW13	2960	656827	1 - 366	15 - 380	
HLWCW20	2961	669541	1 - 355	15 - 369	
HLWCW62	2962	856443	1 - 1140	15 - 1154	AA720682, AI824562, F19258, AA654627, AI493615, AA503947, AL040913, AW340844, AA650244, AA077817, AA228329, AI679782, AI886176, AA729264, AA551509, AA342958, AI205126, AI357551, AI929531, AW103769, AW162049, AA610491, AW008317, AI053816, AI054246, AA743956, AI282336, AA904218, AL046898, AW301818, AI469172, AI307426, AA584082, AA745410, AI048616, AA515938, AW361583, F29989, AW071063, AA581342, AI802526, AI537955, AI446518, AI358229, AI807372, AI565245, AW406755, AI365988, AA340003, AW339687, AI635272, AI274692, AA228420, AI003172, AI922002, AI523897, AL041368, N25927, AA578154, AW157608, AI138242, AI214510, AI281808, AW104748, AW080134, AI281807, AA713815, W60516, AI111177, AI469878, AI446601, AI469624, AL138265, AA639250, AI282832, AW243960, AI633479, AI858451, AW029038, AI828710, AA394271, AA482711, C75026, AA503258, AA558857, AI471534, AI683577, AW236342, AI005388, N66026, AC004383, U62317, AF078904, AC004620, Z84721, AC003015, AC005206, AC005667, AC002375, Z15025, AF129756, AI109827, AI022328, AC004478, AC005778, AC004583, AC005099, AC006208, AC002395, Z99497, Z98747, AC001082, AC006057, AC020663, AC004890, AC004033, AI132826, AF037338, AL050341, AC007731, AC005500, AC004388, AC010722, AL008629, AC003035, AC010072, AC002310, AC004472, AC002073, AC005794, AI133448, AC009044, AF124730, AC004806, AC000118, AC000003, Z84480, AC004408, U70984, AF011889, L48472, AI031655, AI035690, AP000039, AC000085, AL031584, AC009946, AF015720, AC002543, AL080241, AC003982, AI021326, AC002378, AI023879, AC005257, AP000432, AC005746, AC005037, Z98754, AF064861, Y14768, AF047825, AP000495, AI109627, AC005838, AI021878, AC002350, AC005245, AC007686, AP000505, AI229041, Z98744, AC005356, AI109622, AC002312, AC005086, U91327, AC005211, AJ006996, AC007292, AC008984, AC004964, AC004066, AC002483, AC000025, AC005284, AC000004, Z95624, AI117354, AC005815, AC004066, AC002483, AC000025, AC007786, AF196971, AF165176, AI121846, AI023694, Z97635, AC009510, AC005184, AC007376, AC004526, AP000656, AC002565, U89387, Z84572, AI049745, AC009069, AL034406, AC006965, AC005046, AF109907, AC002432, U07000, AC006241, AL031591, AC006207, AC007387, AC005751, AC004638, AC004149, AC007221, Z69705, Z86061, Z76735, AC004540, AL096805, AI023755, Z9876, AI022395, AI033381, AI031427, AF042090, AC000052, AC007537, AI022163, AC003050, AL080276, AC004972, AC005940, AL031680, AL133494, Z73965, AC00392, AC005913, AF064857, AC004986, AL049776, AC004909, AP000561, AC004810, AC004596, AI031666, AC005071, AC004019, AC006213, AF064864, U75285, AC004592, AC006556, AI109967, AP000023, AC005194, AC003303, AI117340, AF128846, AF128847, AC004099, AF128848, AB026188, AL096769, AL078472, AL049873,

HLVY30	2963	650859	1 - 364	15 - 378	AC005527, AF002991, AP000358, AC002984, AF045448, AC005159, and AP000359.
HLVY30	2964	744886	1 - 430	15 - 444	AI760159, and AL133353.
HLVY30	2965	784253	1 - 343	15 - 357	AI792627, AI254439, AI581223, AW086361, AI1349662, AI053903, AI862231, AI223748, AI792525, AW197508, AI348722, AI684349, AI053450, AI583532, AW182499, HG5697, AI248494, W24698, AI140609, AI270092, AI767864, AA573242, AW264786, AA233643, AI214028, AI266177, H95865, H72049, AW079694, AJ011930, AC005233, AC005972, AC002428, AL031733, AC002990, U95740, AC004662, AF196969, AC002378, AC010206, AP000356, AF117829, AP000252, AC005902, AP000212, AC006581, AC004841, Z85987, AP000031, AC005622, U1323, AC004999, Z95331, AC004534, AC005482, AP001067, AC004973, AL132708, AL021917, AC005659, AL133238, Z84469, AC007277, Z98941, AF067844, U91321, AC004087, Z98044, AL121754, AC002312, AC008928, AC006160, AC005658, AC004033, AC004025, AC004953, AL031985, AC004134, AC005211, AC004079, U9387, AF111167, AC000127, AL008732, Z98743, AC004796, AC005969, AC004144, AC005793, AC004935, AC008064, AL049709, AC004143, AC006011, AC004985, AL121577, AL049539, AC004084, AL022718, AL122020, AP000167, AC005488, AL132987, U95739, AL049843, AF001548, Z96074, AR036572, U91328, AC005088, AC004552, AC003078, AL022165, AL009181, AL133163, Z83822, AP000343, AC006430, AL031466, AL049835, AC007371, AC005105, AC006026, AI035407, AC004638, AL049872, AL034402, AC005280, AL022721, U82671, AC002522, AC000095, Z95113, Z95116, AC004992, AC006515, AL022316, Z93023, AC003010, Z84466, AC007707, AC004410, AC007057, AC006059, AC004927, AC003065, AC005033, AC007245, AI078463, AC007435, AC002492, and AL117375.
HLVY30	2966	919586	1 - 730	15 - 744	
HLVY30	2967	772022	1 - 438	15 - 452	
HLVY30	2968	657010	1 - 547	15 - 561	
HLVY30	2969	935149	1 - 645	15 - 659	AI476323.
HLVY30	2970	856413	1 - 538	15 - 552	AI306717, H81406, AL134167, AA496309, AA653823, AW408596, AA582746, AA837771, AI1185394, AW237905, AI417586, AI186233, AA714011, AW084173, AI915081, AI973173, AI569700, F35684, AA368329, H40478, AA487226, AI250967, AA111870, AI678287, AA502207, AA581247, AA018231, AI680547, AI298079, F33037, AI300818, AI310992, AA434078, AI078409, T08386, AI187148, AW069227, AL135363, AI755057, AA658131, AA715962, AA297006, AA722505, AA445949, AI634187, AI697242, AA077637, AI457313, AA378489, AA297698, AI272192, AI340832, AA557911, AW440451, AA778962, AI565138, AW028170, AA715983, AI653783, AL042373, AA947369, AA937809, AA071045, S42653, AC006479, AL034419, M87912, AL049839, AC005014, AF165141, AL133246, AL022323, AC007421, AL133245, AC005846, AL031984, Z84470, AC007993, AL022328, AC004385, AC004622, AL034429, AI049795, AP000147, AP000089, AC004817, AC004694, AC007773.

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HLVDG27	2971	682910	1 - 568	15 - 582	
HLVDG38	2972	597131	1 - 397	15 - 411	T83869.
HLVDG59	2973	871587	1 - 439	15 - 453	
HLVDH27	2974	678266	1 - 703	15 - 717	AA572675, AA579556, A1361854, T95591, T95067, and AA813887.
HLVDH32	2975	699082	1 - 717	15 - 731	AA252702.
HLVDH52	2976	726575	1 - 526	15 - 540	R99046.
HLVDI08	2977	959055	1 - 513	15 - 527	A1590217, AA343092, AA317170, AW157326, AW236342, AA593060, C05755, C06327, A1937850, AA574282, A1114846, AW419262, AW440976, A1923140, A1653905, AA330380, AW131249, AW390062, AA663306, F35659, AA947370, AA828984, A1291124, AA084070, AA244208, M86058, A1291268, A1537030, AA190911, A1312149, AL118947, AW406162,

HLYDK74	2978	738346	1 - 555	15 - 569	T10560, AA837351, AA348929, AA704391, AA640979, AW167267, Z92844, AC000353, AC005690, AL137191, AL021918, Z86062, AC005911, AC005998, AC005702, AC004672, AL033392, AC004168, AL133355, AC003966, AC002985, AC005197, AC005350, AP000352, AC005625, AC004592, AC006162, AP000462, AC005704, AL021546, AC005233, AL021453, AL035457, AL022160, AP000359, AL022394, AC007536, AC007283, AC004802, AL031589, X03273, AC005620, AL096701, Z84718, AC002072, AC006251, AF165926, AC005180, Z83840, AC005619, AC004941, AC004227, AL049875, AL049860, AF042090, AP000555, AP000042, AC004834, AC005829, AC002347, AP000431, AC009247, AC004066, Z99774, AC002526, AC004019, AC003007, AL031347, AC008115, AC006480, AL031291, AC006925, AC005208, AF015170, AL034582, AL008734, X66401, AP000513, AC002073, AP000689, AC004884, Z73900, AC005696, U97187, AC005328, AL022238, AC004972, AC005632, Z83841, AC005786, AC007688, Z83846, AC005837, AL022721, AL021937, AC007899, AC005565, and AC004525.
HLYDL24	2979	677041	1 - 488	15 - 502	AW005554.
HLYDL60	2980	909866	1 - 378	15 - 392	AA129914, AA128462, H94876, H72836, and AI1818080.
HLYDL75	2981	790244	1 - 555	15 - 569	D29642.
HLYDM51	2982	973377	1 - 503	15 - 517	Z99396, AL036418, AL038837, AL037051, AL036725, AA631969, AW392670, AL039074, U46341, AL036924, AW372827, AL036858, AL119497, AL038509, AW384394, AL039564, AL039085, AL037094, AL039156, AL039108, AL119483, AW363220, AL039109, AL039128, AL036196, AL036190, AL119319, AL119355, AL119457, AL119443, AL037526, AL119324, AL036767, AL039659, AL037082, U46349, AL119484, AL119363, AL119391, AL037639, U46350, AL119522, AL038531, U46351, AL119341, AL119335, AL043029, AL119496, AL119396, AL039625, AL039648, AL045337, AL119444, AL119418, AL036238, AL037077, U46347, AL037085, AL042909, AL134920, AL039678, AL039629, AL134531, AL134538, AL039386, U46346, AL036733, AL042965, AL037205, AL119439, AL039423, AL036268, AL042984, AL042975, AL039150, AL038447, AL040992, AL042614, AL134528, AL042433, AL038520, AL042973, AL134533, AL037027, AL036998, AL119399, AL037615, AL038851, AI142134, U46345, AL043011, AL042551, AL119464, AL036191, AL042544, AL043019, AL043033, AL039410, AL042450, AL042542, AL037178, AL036679, AL036765, AL036719, AL043003, AL036774, AL037021, AL036836, AL036999, AL036158, AL036886, AR060234, AR066494, A81671, AR023813, AR064707, AR069079, AB026436, and AR054110.
HLYDM62	2983	743380	1 - 547	15 - 561	AL022098, and AC005215.
HLYDO56	2984	733240	1 - 220	15 - 234	
HLYDO75	2985	767170	1 - 346	15 - 360	AA026296, AA086041, AA086123, and AA026297.
HLYDS11	2986	966732	1 - 431	15 - 445	T97786, AA007533, AL031432, AC004520, and AL031737.
HLYDS66	2987	711565	1 - 508	15 - 522	
HLYDS84	2988	687991	1 - 533	15 - 547	AW080134, AA377730, AA358122, AI264743, AA913114, AI305766, AI193007, N20066,

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HLYDS91	2989	775483	1 - 458	15 - 472	AA482994.
HLYDT03	2990	920268	1 - 557	15 - 571	
HLYDT68	2991	526245	1 - 320	15 - 334	
HLYDU08	2992	959074	1 - 370	15 - 384	
HLYDV62	2993	927872	1 - 583	15 - 597	AA326846, AI074002, AI084046, AA187426, and AW453048.
HLYDX93	2994	669792	1 - 548	15 - 562	
HLYDZ44	2995	716435	1 - 584	15 - 598	RI4337, AA485189, and AB030181.
HLYEB56	2996	710819	1 - 316	15 - 330	AI983188.
HLYED52	2997	931992	1 - 350	15 - 364	
HLYED59	2998	856383	1 - 688	15 - 702	AI374993, N94590, W23797, AA585403, AI383156, and AC000353.
FLYED65	2999	747763	1 - 213	15 - 227	H72741.
HLYED77	3000	615312	1 - 419	15 - 433	
HLYED85	3001	784254	1 - 641	15 - 655	
HLYEE34	3002	703906	1 - 554	15 - 568	AA888665.
HLYEJ81	3003	488925	1 - 555	15 - 569	
HLYEL47	3004	666448	1 - 563	15 - 577	
HLYEN93	3005	682176	1 - 612	15 - 626	
HLYEQ40	3006	710986	1 - 297	15 - 311	
HLYEQ73	3007	760566	1 - 339	15 - 353	
HLYER38	3008	709181	1 - 386	15 - 400	
HLYET03	3009	923834	1 - 447	15 - 461	
HLYFA27	3010	682763	1 - 525	15 - 539	AA164189.
HLYFA58	3011	835409	1 - 393	15 - 407	AW405746, AI479114, AA845235, AI766637, and AI361762.
HLYFC15	3012	923620	1 - 858	15 - 872	AA504562.
HLYFF10	3013	964109	1 - 563	15 - 577	AW085626, W24802, AI754926, AA527633, R63460, AW028376, R23449, AA465198, AA338395, AI797998, R96319, Y18000, AC004000, AC005971, AC004882, AC005529,

HL YFF64	3014	746339	1 - 476	15 - 490	AC007051, AL078612, AC005358, U95739, AC007536, AL022271, AL031121, AL049830, AL022326, AC007919, AP000512, AL049709, AC005839, AC004009, AL033381, AC005695, AC007371, AL078476, AP000356, AC007666, AC002477, AC009516, AC003982, U10580, AC006581, AL022316, AC005037, AC005209, AC007057, AL049872, AL022165, AL008582, AC005377, AD000092, AC005225, AL049569, AL049694, AC003013, AC004804, AL035086, AP000555, AC005618, AL031255, AC004988, AL031003, AC004526, AL050321, AC009247, AC005237, Z94721, Z69375, AC000052, AC004472, AC005694, AC002310, U85195, AL050308, AL022311, AL133448, AL022327, Z97056, AC005585, Z97183, AL121580, AE000658, AC005527, AC002544, AC001643, AC005899, AC006480, Z97054, AC005632, AC007546, AL031985, AC004099, AF001550, U78027, AC004185, AL035422, AC005207, AP000692, AL022320, AC004019, AC004862, AB022785, AC005913, AC006511, AL022476, AC006930, Z85986, AC006241, AC006468, AL008725, AL021707, AC007514, AC005800, AL079295, AC005231, AC000004, AC008115, AC004967, AC004100, AL009181, AL109758, AL034420, AC005291, AP000558, AP000553, and Z99128.
HL YFF64	3015	924558	1 - 529	15 - 543	AA858380, AW269071, AW271095, AW302832, AI284536, AI251563, AI252141, AI733946, AI733930, AI792695, AI792746, AI792842, AI252190, AI792856, AL080242, AC004876, AC004645, AC006111, AC000091, AC004169, AR036572, U91328, AC004771, AL031775, AB001523, Z99754, AC004652, AC006129, AC004509, AC004828, AL022329, Y07661, AD000684, and AC000026.
HL YFF64	3016	933988	1 - 423	15 - 437	AA287719, AI806591, and AI418161. AI061334, AW088202, AW162049, AW080134, AI570261, AI929531, AW104748, AA482711, AL046409, AI357551, AI963720, AA714453, AI471481, AI341664, AI962050, AI344844, AW029038, AI049634, AI350211, AA581903, AI814735, N53150, AI133636, AW166815, AI567674, AA610491, AI291268, AW193432, AI291124, AW302013, AI688846, AI890923, AI375710, AI339850, AA713815, AW265009, AW193265, AI284640, AA59290, AI561255, AI669453, AI761471, AA826303, R94721, T07451, AI801600, C05755, AA501600, AI679782, AI368745, AA594145, AA649642, AI613280, AA161095, AA722048, AI561060, AI589230, AA652057, AI625244, AI860020, AI283911, AW062724, AL120674, AW440836, AI469003, AW438643, AA531372, C06458, AA584752, AI049722, AA828704, AI251002, AI537955, AA350859, AW276827, AA513141, AA623002, AA316905, AI669443, AI357288, AI610920, AA470969, AI370878, AI431303, AA513181, AA079831, AI446601, AI374809, AI345654, AA652764, AA302963, AA507547, AW079135, AI251436, AI364809, AA143516, AA806796, AA598824, AI198376, AI635818, T28550, AA340747, AI918421, AA551503, AA491814, AI917271, F04478, AI859742, AI890348, AA084070, AA582911, AI888518, AA843450, R98967, AW008212, AI654525, AI270117, AA847499, AI744995, AW238278, AW276817, AA513293, AW273218, AI301700, R97934, AW070892, AI821271, AI619997, AA934680, AA632868, AI564185, AI799642, AI371070, AA719805, AA364224, AA831375, AA348929, AI801591,

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HLFYFO83	3017	863918	1 - 449		15 - 463	
HLYFP23	3018	673373	1 - 515		15 - 529	AA594591.
HLYFR38	3019	709184	1 - 108		15 - 122	
HLYFU64	3020	936051	1 - 429		15 - 443	A1469555, Z33443, N76673, A069889, AA281224, Z74620, AL031602, Z70227, AP000336, AL022577, AL035653, AP000215, AC004646, AB006903, AJ239329, AL078477, AC004081, AF186194, Z95703, AC005726, AP000084, and AP000221.
HLYFX27	3021	682776	1 - 168		15 - 182	AC002458, AC005412, and AC007065.
HLYFX40	3022	710851	1 - 490		15 - 504	N76624, and AC005740.
HLYFX96	3023	916452	1 - 232		15 - 246	A1187732, and AA706963.
HLYFY33	3024	719251	1 - 300		15 - 314	AA352500, AI024945, AI493761, AA340178, AI192435, AA032024, AA452969, AA447052, AI038406, AA575836, AI143749, W38849, AA643304, AA811387, AA296364, AA829930, AI783713, AA568692, AI767267, W58767, AA443666, AI708679, AI761290, D82533, AA890233, W56507, AI312651, C05835, AI247870, AA639508, AA847787, AI338935, C05751, N80205, AA412478, AA828434, AA928571, AI741989, D83838, AI078010, AI191125, AI888718, AA814538, D83836, AI206832, AI241436, AA628649, AA676899, W52897, AI683306, H44229, AI932299, W56778, AA897470, AA452830, N93132, C06275, AA523873, R10897, AA659136, N69930, W38563, AA715017, U57692, and U57691.
HLYFY78	3025	660000	1 - 477		15 - 491	
HLYGA32	3026	698860	1 - 543		15 - 557	
HLYGA46	3027	952292	1 - 754		15 - 768	
HLYGC11	3028	966480	1 - 461		15 - 475	
HLYGC18	3029	665721	1 - 543		15 - 557	
HLYGC63	3030	744739	1 - 526		15 - 540	AA381269, AI859834, AA663966, AI754955, AI350211, AW193265, AI537077, AA490183, AI434695, AA515905, AA577906, AI151407, AI613280, AW276827, AA857486, AI754658, AL118991, AA483223, AJ979005, AL048925, AI744995, AL041706, AA623002, AL038705, AW080811, AA594145, AA713891, AA469451, AA493708, H73230, AI860013, AI379719, T47936, AW050734, AW275719, AI433247, AL040382, H88666, AW276435, AI814735, AA503258, AW263864, AI859946, R17793, AA177061, AA652764, F36273, AA665021, AI635279, AI061313, AA226153, AA721524, AL119691, AA122223, AA493621, AA488746, N76766, AI933714, AI570943, AA846876, AA587604, AI745151, AA806796, AW103758, AI358501, AA502963, AW337454, AA613203, AI204304, AA599480, AI561060, AA767963, AA569471, AW129001, AW338086, AI623898, AA503154, AW408707, AA779783, AI471815, AI708444, AI865213, AI708009, AA598425, N53150, AI446474, AA633582, AW021583,

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HLYPE28	3031	686173	1 - 565	15 - 579
HLYGH53	3032	871636	1 - 870	15 - 884
HLYG123	3033	656698	1 - 245	15 - 259
HLYGK24	3034	676907	1 - 267	15 - 281

HLYGK77	3035	732362	1 - 433	15 - 447	AL035410.
HLYGK82	3036	698553	1 - 360	15 - 374	
HLYGK96	3037	967628	1 - 467	15 - 481	
HLYGM41	3038	712099	1 - 387	15 - 401	AA513861.
HLYGM53	3039	690748	1 - 629	15 - 643	AA173740.
HLYGP15	3040	920077	1 - 539	15 - 553	
HLYGP26	3041	790301	1 - 415	15 - 429	H56560, R06615, T85748, N92020, AA707219, H90265, and N63876.
HLYGP46	3042	832311	1 - 982	15 - 996	AI004177, AW051735, AI923749, AI635200, AI201473, AI766831, AI352428, AA868576, AI380688, AI936241, AW393044, AW374354, AI318183, AW393061, AW374438, AI005539, AW364275, AA300050, AA909208, AI273127, AA814294, AA705616, AI698332, AI814050, AI273128, T27697, AA878157, N26436, AI224032, AI540961, AA291160, N35079, AW402662, C16472, C16435, H99331, AW408278, and D25278.
HLYGR39	3043	744849	1 - 341	15 - 355	AC004777.
HLYGV02	3044	856376	1 - 389	15 - 403	
HLYGV07	3045	879387	1 - 489	15 - 503	
HLYGV66	3046	697627	1 - 600	15 - 614	T87263, H94155, and AA055829.
HLYHB85	3047	773990	1 - 548	15 - 562	
HLYHG09	3048	590369	1 - 597	15 - 611	AA640056, H69347, H69346, AL021155, AL031588, and AL034418.
HLYHG18	3049	665713	1 - 439	15 - 453	AA075210.
HLYHG45	3050	711741	1 - 620	15 - 634	AA300319.
HLYHI75	3051	767066	1 - 550	15 - 564	AW198107, AA917906, Z36759, H87252, AI521360, AI247128, AI207422, AA843450, AA601230, H47835, AL031657, AC000379, AC005971, AL022165, AC005037, AL049776, AL021391, AC007938, AC004602, Z98036, AJ236694, AL034549, AL022238, AC006441, AD001527, AF047825, AF196969, AL022328, AL049843, AC002312, AL031587, AC003695, AC020663, AC006237, AP000563, AC005482, Z95115, AC005531, AC004882, AL080243, AP000211, AP000133, AP000509, AL021878, AC004797, AL049869, AL049594, Z83840, AL121653, AC006117, AC002091, Z93244, AL035086, AC005332, AP000126, AP000204, AL079342, AL109839, AC005300, AC005206, AC005839, AC003663, AL109963, AP000553, AC008372, AF134726, AC005031, AC006312, D84394, AC005519, AC005667, AC004087, AC007050, AC005899, AC004998, AC002477, AC005808, AC005089, AL031295, AC005183, AL109984, AC002418, AL022327, AC003035, AC005911, AC004099, AL049694, AL109758, AC004491, AC005015, AC004815, AC006515, AL096712, AC004386, AL021579, AC002470, AL096761, AC007240, AP000704, AC005017, AC006501, AC004228, AC005562, L31848, Z84476, AC012384, AL117330, AL031407, AL008723, AC009516, AL031985, AC005018, AL049552, AF196971, AL133163, AC005069, AC005529, AC004525, AL022311, and AC007114.

HLYHK02	3052	919199	1 - 525	15 - 539	AC004472.
HLYHL74	3053	765292	1 - 534	15 - 548	AA559182, AA573068, AA491823, AC005386, AP000692, AC004662, AC007386, AC007738, AL121653, AC002350, AC002404, AL022320, L05367, AL078581, AC004921, and AL096701.
HLYHM86	3054	784724	1 - 461	15 - 475	AA569573, and AA908998.
HLYHN47	3055	720019	1 - 570	15 - 584	HI5547, F02465, and N73834.
HLYHN67	3056	920551	1 - 708	15 - 722	AW387103, R67677, AW404276, H03065, AW403805, AW387108, AL360165, A1891114, A1346739, AA115361, AW410383, AA476376, A1493775, A1373735, AW005762, A1683639, AA814726, A1885010, A1767165, N77394, N52435, AA548360, AA804529, A1335842, Z43872, H12922, F11250, and AF176915.
HLYHQ49	3057	659883	1 - 262	15 - 276	AA380617, and AC005041.
HLYHQ79	3058	751428	1 - 548	15 - 562	HS7483, A1888261, R92056, and AA594742.
HMAAA35	3059	773472	1 - 507	15 - 521	T73196, AC007182, and Z64784.
HMAAE04	3060	385644	1 - 317	15 - 331	
HMAAE83	3061	745077	1 - 420	15 - 434	
HMAAF10	3062	968199	1 - 413	15 - 427	AW445199, A1291885, A1796788, A1291659, A1681688, A1586930, A1863432, and A1371323.
HMABJ56	3063	907640	1 - 401	15 - 415	D57175.
HMABN34	3064	706264	1 - 459	15 - 473	AI523278.
					A1865938, AA608751, AA639946, A1865807, AW068316, AA528500, AA365586, AA603530, A1814739, A1874201, AB023048, I34294, AC004659, AC005696, AL080243, AC004796, AC006153, U95742, Z94721, AC004821, Z98745, AC007216, AC005678, AF196779, Z98742, L78810, AC004851, AC007055, AL133448, Z85987, AC005081, AP000563, AC002128, AC004812, AC002470, AP000133, AC004491, AC006130, AL021154, AP000558, Z82195, AL109627, AL022323, AP000211, AL031311, AP000510, AC004150, AC005200, AL031662, AL034420, AC004859, AC006111, U91326, AL035587, AC005914, AF060568, AC000159, AL022322, AP000300, AC003010, AP000555, AC007546, AP000251, A1049776, AC005529, AC005519, AC009516, M59250, AC006571, AC004522, AC004645, AC004019, D87011, Z93930, Y18000, AC005747, AC005015, L44140, AL136295, AC002544, AC005412, AC005067, AC003070, AC004834, AL021808, AL031737, Y14320, Z93241, AL121769, U29895, AC005358, AL049643, AP000030, and AC005940.
HMABQ71	3065	729831	1 - 500	15 - 514	
HMACS56	3066	733395	1 - 435	15 - 449	AW298595, AA463415, AA769410, AA465345, AA468904, and AA971248.
HMADC02	3067	920088	1 - 205	15 - 219	
HMADL77	3068	708074	1 - 143	15 - 157	
HMA DM33	3069	970491	1 - 431	15 - 445	
HMA DX31	3070	697994	1 - 248	15 - 262	AW452893, Z25062, A1215990, A1699527, A1147565, A1004649, A1291404, A1669727, A1820914, AA479756, AW005622, AA831051, F00452, AA825896, AA885489, AA725719, AA588432, AW071714, AA583305, AW451815, and AA969033.

HMAJY01	3071	939916	1 - 732	15 - 746	AW177706.
HMAJY01	3072	744337	1 - 347	15 - 361	
HMAJY01	3073	734688	1 - 322	15 - 336	
HMAJY01	3074	856267	1 - 368	15 - 382	AA362198, W21176, H87432, and AA302842.
HMAJY01	3075	925049	1 - 427	15 - 441	
HMAJY01	3076	733286	1 - 417	15 - 431	
HMAJY01	3077	692598	1 - 500	15 - 514	AW392670, Z99396, AW384394, AW372827, AW363220, AL119497, AL119341, AL119443, AL119496, AL119319, AL119355, AL119457, AL119324, U46341, AL119483, AL119484, AL119363, AL119391, U46351, AL119335, AL119522, AL119396, AL119418, U46350, U46349, AL134902, AL042975, U46347, AL119444, U46346, AL042551, AL037205, AL134536, AL042450, AL042614, AL119439, AL042433, AL042984, AL119399, AL042965, AL119401, AL134920, U46345, AL134527, AL134525, AL134538, AL142131, AL043019, AL042970, AL119488, AL042896, AL042544, AL043029, AL042542, AL043003, AL119464, AL037027, AL036765, AC005065, A81671, AR060234, AR066494, AR054110, AB026436, and AR069079.
HMAJY01	3078	778521	1 - 409	15 - 423	AW402092, AA312190, A1907395, AA356734, AW403328, AA357475, AA352723, AW401989, AA352880, A1651812, AA347435, AA378937, AA360333, AA347660, AA347524, AW250682, T80305, N34180, AA191246, AF112209, AF052504, U72519, U70211, and AF131766.
HMAJY01	3079	741754	1 - 90	15 - 104	
HMAJY01	3080	723186	1 - 535	15 - 549	
HMAJY01	3081	736039	1 - 321	15 - 335	
HMAJY01	3082	694042	1 - 98	15 - 112	
HMAJY01	3083	823422	1 - 147	15 - 161	AL035413.
HMAJY01	3084	735355	1 - 469	15 - 483	
HMAJY01	3085	947905	1 - 423	15 - 437	
HMAJY01	3086	681320	1 - 308	15 - 322	
HMAJY01	3087	856278	1 - 539	15 - 553	
HMAJY01	3088	916259	1 - 459	15 - 473	AA779075, AL037910, AA837351, AL134330, AA993198, A1084012, AW403720, AA300052, AA173970, AL045709, AA393847, AA779783, AA811580, R59660, AA262752, AA665257, A1570943, A1978712, A1377413, A1814721, AA059415, AW270619, AA565826, AA664235, A1903081, AA159516, AA252641, AC006965, AC003687, AC005741, AL049745, AC005738, AF118808, AC004534, AC004841, AF121782, AL035684, AL034402, AF124523, AL031285, AL080317, AL132987, AP000961, AC002351, AL050338, AL133246, AL008709, AE000660, AL035089, AL020990, AL049838, AC002385, AC005610, Z99495, and AC006368.
HMAJY01	3089	801917	1 - 1707	15 - 1721	
HMAJY01	3090	856311	1 - 603	15 - 617	
HMAJY01	3091	956195	1 - 496	15 - 510	A1826091, AA580077, A1359456, A1362274, A1361512, AA861038, AA961076, AW008827,

HMAMA69	3092	975074	1 - 431	15 - 445	AI658621, AI368484, and AC000392.
HMAME11	3093	955999	1 - 2660	15 - 2674	AI049648. AA780265, AI921096, AI766065, W63619, AA399960, AI912594, AW204723, AW300114, AW182579, AI681695, AI634542, AW300127, AW134790, AI672402, AI632484, AI991208, AI921108, AW273778, AI672557, AA829864, AA237046, AI498167, AW274451, AI703437, AI870323, AW173366, AI368759, AA455660, AI333733, AA143030, H18069, W73117, AI870510, AW006266, AA972594, AI659606, AI862877, AA167089, AA029847, AA548971, AA602625, W44772, N24939, AA845904, AA669693, AI268864, AA281067, AI130979, AW003963, AA446051, AW189836, AI971599, AI273393, AI392880, AW197453, AI278947, AI351669, N62971, AI308071, AI936847, H98724, AA836448, AI440191, AI989522, AA011285, AI589281, AA293010, AA827358, AI339270, AA459005, AA455715, AI860721, AI302146, AA524204, AA505574, AI364520, AI090733, N66064, H97021, AA135737, AA432293, H72683, N24292, AW190461, AI027367, W93402, AI912153, AA962416, AA719182, AI367284, AW205556, AA911230, AA029982, AA399292, R11703, D25619, H97049, AI699130, N23812, AA952896, N36243, AI168162, AA723573, AA476536, AI214579, AA594325, AI694799, AA975509, AA150983, AI122611, N35346, R61136, AA459224, AA024419, AA044981, AA927127, AA976353, AI631939, AW023248, AA806738, H25442, AI572175, AA858127, AA278458, AA034991, W37092, AI370017, AA024420, D82669, H25487, T33969, T83721, N22469, AI473134, AW150562, T16805, AI383106, R12119, T36116, AI188357, AA988155, H17376, T39763, AI823318, T39771, T39737, AI341595, AA906253, AA715091, N99439, AI611116, N44714, AA281192, T39788, T39778, AA203543, N72004, AA383416, F04896, H10770, Z40617, AA857399, T98192, T98193, AI918795, AW274013, AA907736, AA906256, Z43451, T39764, T17433, AW089288, AI696191, AI692608, AI638777, R47794, AA459004, AA700917, AW378486, AI873655, T39745, AW057906, AA301109, AI368524, AI873204, R40787, W93614, W61128, AI471097, AI935327, AA927938, AA904804, AA010846, N95657, AA034960, H10769, AA091950, N79875, N56479, AW138315, R50427, AA236848, AA724749, AA383283, AI001837, AA365102, AA093695, AI765014, AA471159, AI686101, H72682, AW362319, F07569, and AI091461.
HMCAJ27	3094	959557	1 - 553	15 - 567	AI817881, AW271350, AI452395, AI698804, and AI022316.
HMCAJ60	3095	586435	1 - 288	15 - 302	AA179308, AA122166, AA166791, Z25347, N41968, AI087936, AA505715, AA037848, AW351931, AA748014, AA740754, AI193280, AA452481, AA610857, and D79986.
HMCAO01	3096	916843	1 - 606	15 - 620	
HMCAU25	3097	856241	1 - 255	15 - 269	
HMCAW49	3098	974119	1 - 555	15 - 569	
HMCAZ67	3099	751804	1 - 574	15 - 588	R95734, AA702224, AA557260, AW3040938, AI761850, and AI223183.
HMCBI05	3100	932146	1 - 348	15 - 362	
HMCCA45	3101	722027	1 - 430	15 - 444	

HMCCB30	3102	692830	1 - 381	15 - 395	AC004682.
HMCCB62	3103	747136	1 - 229	15 - 243	AW135935, AW138952, AW137754, AW135962, AW138823, AW138870, AW136428, AW207624, AW139869, AW341135, A1458161, AW341795, A1936474, A1702804, A1298857, A1205685, A1692679, AW340949, A1860249, A1223102, AW341157, A1268060, A1680872, A1692602, A1458917, A1819255, AA724456, A1797139, A1378332, A1457094, A1168190, A1797065, A1689805, AW070376, AW419338, AW117584, A1458888, AA932423, A1150020, AA062985, and AC005829.
HMCCB78	3104	773660	1 - 290	15 - 304	
HMCDDB42	3105	713051	1 - 474	15 - 488	AW298470, AW082724, A1304868, A1348442, N20641, A1018013, AA776579, AW293387, A1124624, AW298354, AA804512, AA737473, A1280305, AA9233469, R50142, AA837153, AA921954, AA827804, and AA748461.
HMCDM32	3106	699249	1 - 432	15 - 446	AA488432, R77507, AA001526, AA102031, AA443065, W33067, F18394, AW243706, T51965, AA461430, AA774222, A1049662, AA629597, AA724230, R44592, A1363798, A1561335, AA630030, AA659856, A1670124, AA330772, N64437, R79496, A1119025, AA364193, AA642265, T65735, AA195798, AA196052, R78564, AA481363, AA345330, AW270284, AA481375, AA669387, T29360, AA365248, AA825793, M78150, AA620390, T60791, A1874201, AA484148, A1758582, AA747472, AA747620, H95528, A1284583, AA528516, A1349874, AA457771, H39713, H44095, AW341892, A1446464, A1469687, AA312878, AA347820, R81240, H14935, AA745560, AA935789, T71030, AA984387, AA244415, AA828696, AA745431, AA679493, A1468134, AA226364, AA834820, H85382, R13151, A1801600, A1174535, A1345522, AA658235, C18648, AA573695, A1061089, M77950, AA720583, AA551575, H04821, A1801591, AA135119, A1344844, A1619997, AA641103, AW029526, H14931, T71998, AA669522, A1298977, A1225141, AA513939, AA630834, R54885, AW265009, A1439360, N55273, A1499134, AA829405, T15977, R66997, A1921188, AA593533, AA788883, W45336, A1499503, AA192695, H26689, AA115729, AA177063, AA758934, A1473684, AW117750, A1379719, A1565581, AA242863, AW327868, AA533038, A1613261, A118911, AA533450, A1871992, T91024, A1792108, H95267, A1048626, AA533092, A1310138, AA196020, AA164251, A1340453, W37913, A1064864, A1041382, AA192337, A1557323, AA034177, N87410, AA525898, H73070, AC003663, AC007358, AR051521, AC006511, AC008079, Z85986, A133485, AC006210, AC004226, AC004859, AC007919, AC004194, AC005331, AC005255, A1109984, AP000338, AP000216, AC008101, A1031774, U02050, AC004638, Z85987, U90297, AC010349, AC016830, AF128525, AC004383, AF124523, AF147341, D31757, AC005250, Z93930, AF064863, AF026807, L16016, U72790, Z84466, AR060394, X64467, Z99754, D16583, AC005759, AP001056, AC005564, AC005542, AP000698, AC007766, A1021977, A1008716, A1080245, A1022311, AC005591, AC007401, A1117325, A1049758, AC004776, AC004001, A1035073, A1031905, AP000692, AC004891, Z83841, AC004928, AC007243, AC004468, AC002472, AB020868, AC005548, AC007664, A1031651, AC005544, AC008012, A1021395,

HMCDN22	3107	895981	1 - 615	15 - 629	AL121748, AP000501, AF196779, AC005209, AC004782, AC008055, AC006530, U95740, AC005771, AC007151, AL049872, AL022152, AC009275, AC003071, AP000959, AC006277, AC005529, AC006016, L81692, AC004000, Z68277, Z82171, Z75896, AC005620, AC005614, Z82217, AC005755, AC005994, AP000152, AP000010, AL035659, AC005091, AL050331, AC006014, AC002402, AL035667, AL022324, Z97987, AC002091, AC005488, AC006946, AC004036, AP001137, AC005660, AL078580, AC010072, AL080242, AL078581, AL136520, AL031257, AP000359, AJ006995, U02054, AC001555, AF032985, Z49235, AC005327, AL021397, U62293, U63721, AC003026, Z83847, Z98750, AC004752, AC005210, AC005057, AC004933, Z83846, AC005341, AL049691, AC002038, AC000379, AC005007, AC003962, Z31005, AC006121, AC006388, Z99128, AC002461, AF050154, AC007540, AL008631, X55922, AC002485, AC007842, AC008372, AC004652, AC004543, Z99496, AC005154, AC004458, D14813, AL135744, U34879, AL034349, AL035665, Z99495, AC005829, AC005019, and AC002106.
HMCDT92	3108	974588	1 - 483	15 - 497	AW264938, AA039677, A1554747, A1696900, AL042720, AL045791, AL040219, AA614566, AA459899, A1697044, AA077186, A1201384, AA040234, AA622885, T62577, A1076623, A1247893, AA325208, AA074393, A1858610, AA280172, R10147, AA308856, A1267803, A1870586, AL046240, AA757892, AL048960, AA249116, A1267805, AA906248, AA077724, AW372467, AA999887, H19634, AL0203658, AA910849, AA906244, H19636, A1129946, A1949914, A1289213, A1656920, AA996066, AW197305, AA078294, AA345106, AL042573, R10553, N22657, AA127979, AC006014, AC005488, AJ007798, AL137492, AC005071, AF030453, and AC005088.
HMCF71	3109	760034	1 - 99	15 - 113	AF092170, AF094827, AF053316, AF073481, and AF153472.
HMCFB22	3110	963794	1 - 508	15 - 522	AC005799.
HMCFR51	3111	725425	1 - 414	15 - 428	AL117694.
HMCFW22	3112	674074	1 - 736	15 - 750	A1916866.
HMC GG31	3113	697533	1 - 373	15 - 387	AI093606, R75654, A1223427, A1587676, AL133404, U82523, AC004056, AC006582, U35039, AP000029, AF069679, AF100956, AF055453, U16790, AF140707, AC007585, and AF140708.
HMC GJ36	3114	708050	1 - 149	15 - 163	AA522990, and AA523266.
HMC GN29	3115	690288	1 - 347	15 - 361	AL078593.
HMC GW54	3116	846134	1 - 339	15 - 353	R61207, AA595242, AA885902, AA664829, A1128992, A1191001, AA236451, AA568605, N20562, N21453, AA205313, AW299827, A1421414, A1092515, A1359411, A1678568, AA412120, A1017854, A1080378, A1829849, A1457327, A1278017, A1720720, AW079295, AA604404, A1161131, AW025239, AW004793, N38928, A1202803, A1735406, A1199103, A1937534, R26385, AA931424, R65602, A1341364, N52379, A1206697, AA393099, H60854, H69040, H75378, A1254208, A1033280, A1928767, AA917535, H48236, H92760, H75372, H53825, A1978889, and H48327.

HMCGY77	3117	753133	1 - 389	15 - 403	<p>AW352117, AW177440, AW375405, AW377671, AW178893, AW360811, A1535959, AW366296, AW360844, T03269, AW360817, AW179332, C14389, AW179328, T48593, AW375406, D80439, AW378534, D58283, AW377672, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80212, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, AW178906, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80045, D80038, AW179019, D80043, D59787, D80227, D59502, AA305409, AW378532, AW360834, AW177501, AW177511, AW377676, D81030, D81026, D80269, C14014, D80268, D80366, D80196, D80188, D51022, D80248, D50979, D80219, AW378533, D80522, D50995, D80302, C06015, D51200, AA305578, AW179020, C15076, D59610, D51060, AW352171, C14429, D57483, D51103, AW352170, D59889, D80133, AW178907, AW177733, AW178908, AW179024, D80024, AA514186, AA514188, D80157, AW178911, D80378, D45260, AW179329, AW177505, AW177456, AW178775, AW367950, D80241, AW178909, AW176467, AW179004, D80251, AW178980, AW178986, AW178914, AW178774, AW178754, AW179018, AW352158, D80390, D80314, AA285331, C03092, C75259, AW378539, AW378543, AW378525, AW378540, AW352163, C05695, A1525923, AW178781, F13647, AW360855, A1525913, A1525917, AA514184, A1557774, A1525925, AF123263, I50126, I50132, I50128, I50133, AR066488, AR016514, Y17187, Y17188, A94995, Y12724, AR066487, AR060138, A84916, A45456, A67220, D50010, D89785, A62298, Y09669, AB028859, A82595, A78862, D34614, D26022, AR060385, A30438, A132110, AR018138, A26615, AR052274, A43192, AR008278, X67155, A43190, AR038669, AF058696, A25909, A63261, D88547, X82626, AR008443, AB002449, D13509, A70867, AR062872, AB019242, AR016691, AR016690, U46128, AR025207, A64136, A68321, AR060133, AR008408, AR032065, and X68127.</p>
HMCHA04	3118	927287	1 - 451	15 - 465	
HMCHIE16	3119	856332	1 - 403	15 - 417	AA380953, and AA917719.
HMCHG76	3120	769734	1 - 498	15 - 512	A1628096.
HMCHK22	3121	974585	1 - 627	15 - 641	
HMCI A10	3122	963791	1 - 327	15 - 341	
HMCI A94	3123	853999	1 - 325	15 - 339	
HMCI K90	3124	788596	1 - 389	15 - 403	A1381684.
HMCI S32	3125	698541	1 - 373	15 - 387	
HMCK C30	3126	671952	1 - 354	15 - 368	
HMMAB49	3127	462502	1 - 356	15 - 370	D29160.
HMMAC10	3128	964846	1 - 299	15 - 313	AA468110.
HMMAC19	3129	953580	1 - 342	15 - 356	AA689256.
HMMAC79	3130	577951	1 - 443	15 - 457	

HMMAD06	3131	935734	1 - 388	15 - 402	AL031053.
HMMAD35	3132	964749	1 - 817	15 - 831	AI281624, AW450798, and AC002302.
HMMAD40	3133	666181	1 - 431	15 - 445	AC007165.
HMMAD58	3134	891329	1 - 668	15 - 682	AP000556, AP000552, AP000557, AP000128, AP000206, and AP000245.
HMMAE12	3135	970892	1 - 534	15 - 548	
HMMAE43	3136	715381	1 - 344	15 - 358	
HMMAF44	3137	855916	1 - 354	15 - 368	N54179, AI270768, T48871, T62975, AA812433, AI952786, AA652057, F12535, AA448858, AA077817, AA975249, AA125788, AA837351, AA581907, AA720702, AA025083, AI459486, F37052, W38980, AA569187, AA748121, AA649642, AI446464, AI266133, N40368, AA507169, AL045077, AF150152, H74314, AA604613, AW408161, AI460390, AA457280, R32200, AI830390, AW028353, T48872, T40077, AA613329, AA491762, AI016704, AA362700, R26134, AA593243, AI064864, AA452567, AI613459, AW406162, AL036523, N79258, AI439360, AI719434, AA443426, AA224966, AA377767, N23649, AI041706, AA338431, AA878495, AA482681, AC005839, Z84480, AC006026, Z49237, AL021391, AC005972, U07000, AC005207, AL031602, Z83840, AP000269, AP000103, AC006040, AC004134, AL021707, AP000688, AF130343, AC005410, AL109865, AJ003147, AC005387, AC004694, AC006153, AC005602, AF108083, AC005486, AF196969, AF207550, AC005632, AP000033, AL035587, AL035071, AF038406, AD000092, AC006211, AC005542, AC005175, AC004035, AC005362, AP000512, AC003684, AI049589, AC005599, U07563, AC006222, AL021782, AL031659, AL078581, AC005184, AL133353, AC004922, AC006965, AC004076, AC002543, AL031659, AL078581, AC005184, AJ010770, AL035072, AC004890, AC006251, AC005071, AC007637, AC005841, AL022476, AL035681, AC004983, AC000066, AC002551, AC005887, AL034379, AF053356, AC004595, AP000547, AL031281, AC005793, AC005187, AC004687, AL080243, AC004815, AC005037, AC002504, AC005519, AF131211, AL121825, AC005180, AC006985, AC004263, AC005193, L78810, AC003007, AC005702, AC003098, AC020663, AC016025, U27337, AL031289, AC005254, AC000025, AC005225, AC004819, AL049653, AP000313, AP000193, AP000050, AC002039, U95742, AP000117, AC007216, AF001549, AC005046, AI049872, AL035658, AC005527, AC005488, AC004638, D88268, U27335, AC006270, U27333, AC005157, AC004596, AC005409, AC007919, AC004549, AL132777, U91326, AC002544, AL031668, AC006064, AC002984, AC016027, AC004854, AC004262, Z95329, AC000070, AF045555, AC009247, AC002477, AC006046, AL121658, AC006385, AC005529, AC004230, Z85987, Z98950, AC004583, AC002404, Z99943, AL008730, AC006958, AB023052, AL031432, AC007226, AC005484, AL022311, AC004966, AC008015, Z98753, AC004848, AC005369, Z99716, AC009178, AC007685, AC005233, AC007731, AP000556, AC004929, AC005261, AC005500, AP000552, Z83846, AP001053, D87675, AL031120, U85195, AC004017, AC006039, AF190465, AC004236, AP000506, AC006511, AC006509, AC009275, AL049757, AC007536, Z73979, AF015416, AC007151, AC003072, AC007993, AD001527, Z86090, AP000504, Z69705,

					AC005746, AL008719, AL031003, AC004973, AC005295, AC004241, AL049761, AJ246003, AC005914, Z69376, AC005480, AL031587, AC004491, AC005944, AC007193, AE000658, AC005324, AB000882, AI1117257, AC004754, AC002299, AC004913, AC005231, AC004067, AC002996, AC005598, U96629, AC004486, AC004084, AC005690, AC005932, AC005332, AC007225, Z84469, Z93020, Z92542, AF129756, and AP000513.
HMMAF70	3138	577918	1 - 695	15 - 709	W05478, R27065, R23185, AA448346, AA744630, N71117, AA662694, AI610124, AL041926, X93207, and X93208.
HMMAF73	3139	506275	1 - 382	15 - 396	
HMMAH25	3140	677861	1 - 296	15 - 310	H72232, R47235, AC007993, Z98941, AL022336, and L44140.
HMMAH45	3141	674953	1 - 70	15 - 84	U61225, U61243, U60971, U61239, AC004883, U57834, and AF184614.
HMMAI03	3142	860715	1 - 299	15 - 313	
HMMAI56	3143	734563	1 - 306	15 - 320	
HMMAI61	3144	718876	1 - 465	15 - 479	AI355246, AW340905, AI249688, N57681, AA577824, AL904211, AI049630, AI038304, AW265279, AI366180, AI609972, R93919, AI762528, AI280266, AW265276, AI962030, AI734567, H29914, AI569100, AW192599, F35684, AW105463, AI755214, AW268090, AI955360, AI889579, AA584594, AA342238, AI306717, AI445373, AI653776, AI271762, AI268019, AI277783, AW022796, AI080307, AI824541, AI050076, AW082104, AA666215, AI754105, AW131356, AA736488, AW084173, AI283938, AL120282, AI133514, AA302982, AA558404, T03928, AA018923, AI923052, AA878492, AW301483, AI049845, R67701, AA456149, AA604831, AA297776, T40629, AW237905, AA302812, AA363027, AI885465, AI281818, AI720403, AW089625, AA487209, AA714190, AI634323, AA206707, AA610255, AW051819, AI049676, AA910941, AW337526, AW166641, AA847704, AI679045, AI250552, AI243793, AI251034, AA551798, H90114, AI254770, AI284543, AA714073, AI054090, AW029515, AI278972, AA219349, AW028950, AW265688, AA678932, AA484892, AW440568, AA626840, AI567391, AW265126, AI217131, W39287, AI049534, AI679759, AA493808, AA371410, AI247101, AI801479, AA846923, AA102737, AI185394, AA564925, AA630947, F34914, AA218684, AW129188, R86977, AA084320, AL079734, AW272599, AA618035, AA804694, H63758, AI354330, AI369076, AW328331, AI520925, H40478, AA947265, AI246996, AI565084, AA501614, AA838120, AW242031, AI251284, AI251203, AI223626, H94979, AI249853, AI446336, AI733856, AW008184, AA598927, AA458534, AA632556, AW081485, AA300177, AA535756, AW328330, AI242614, AI066646, AA629888, AI751753, F01222, AW081610, AI357628, AA877992, AW192402, T94394, AI431513, AA827875, AI879951, AI955029, W45416, AA535216, AI246192, AA557911, AA502110, AA504951, AI417586, AA599080, AA133293, AA493789, AI358712, AI560119, AA873303, H60935, AW162697, H84412, T71936, U89337, AI049776, AI133312, AC005736, AL031597, AC007225, AF053356, AC002492, AC005058, AC003992, AC005899, AC004230, AL021920, AC002312, AL122020, AC007690, AF109907, AL022717, AL031602, AC006960, AL020997, Z95115,

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HMMAL18	3145	666195	1 - 335	15 - 349	
HMMAL28	3146	677446	1 - 419	15 - 433	
HMMAL63	3147	744861	1 - 422	15 - 436	<p>AI252124, AL047643, AI061313, AW103415, AL138171, AI090513, AI674290, AI890928, AI890570, AL045451, AA715508, AI054030, AA832152, AI141675, AA683031, AA399158, AI287964, AA837709, AI037914, T94714, AI050007, H94871, H64905, AW403177, F23268, AL039761, N57057, AA313078, F28122, AI521112, AI039451, AI279756, AA429942, AA528405, AA375160, D44626, AI124660, AW339568, AA310796, AC005694, AC005529, Z96074, Z93017, AI022336, AC005588, AC005291, AC005102, AC002375, AC006537, AC004647, AC004816,</p>

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HMMAP18	3148	666199	1 - 437	15 - 451	AI989372, and AL031589.
HMMAP45	3149	717599	1 - 455	15 - 469	AL046246.
HMMAP66	3150	668827	1 - 411	15 - 425	
HMMAP72	3151	671947	1 - 393	15 - 407	
HMMAPQ04	3152	739304	1 - 482	15 - 496	AA773473, AA532875, AI207476, AA745302, AI370170, T94072, R52008, AI354333, F33490, H13120, H90114, AA335519, AA525807, H15295, AI432298, AA535483, AA713705, AA533332, AA482953, AA214227, AI418661, F35902, F23307, F00211, AW080215, AW381847, AW381904, AA713735, AI054414, H73550, AA626411, AI445774, AI620266, AA828897, AI9333681, AI811647, AA018369, W45205, AA425924, AA364006, AL042310, AA626595, AA372881, AA937809, AA192293, AI925462, AA092862, T83057, AA363003, AA584207, CJ5362, H80989, AA629568, AI312090, AI690497, AA525379, AA856841, AI312784, AI733717, AA513884, AA376358, AA582746, N21300, AA715418, AF047825, AL035405, AL031602, AC005244, Z93241, Z49236, AL035659, AC005295, Z98884, AL031848, U63721, AC004128, AL034379, AC004988, AC002369, AC005828, AL121754, AL022336, AL031291, AC000120, AC004811, U95741, AC005182, AC002416, AC005086, AC002107, AC002106, AP000065, AL133448, AC008928, AL096701, AC005793, AP000270, AL031283, AC002477, AP001172, AC004631, AF148808, AL022327, Z93023, AB015355, AC006101, AC002511, AL122020, AC004967, AC002091, AC004821, AC005914, AP000304, AP000047, AP000032, AP000103, AP000115, AC004801, AP000493, AL049760, AC005993, AL035450, AF207550, AL117694, AC000025, Z98044, AL024498, AC007058, AL022163, AC005527, AL121769, AD000812, AC005049, AP000501, AC005510, AC007226, AC006312, AP000305, AC006476, AC006057, AC007546, AC003041, AL049829, AL031597, AF024533, AC005488, AL021453, AC005529, AC000070, AC005512, AL049548, AC006365, AF031078, AF030876, AL034348, AC007536, AC004013, AJ010770, AL109628, AB020863, AC002352, AC002126, U62317, AF196972, AC005539, AL109952, AC005324, AC005880, AL109623, AL049692, AC005264, AL132712, AC009946, AC006409, AL035683, AC002301, Z82178, AC005280, AL117258, AC005786, AL096766, AL049570, AC004106, AL135879, AL121790, AC004460, Z97832, AP000320, AC004851, Z98200, AC007792, AL008718, AC006077, AL049776, Z82215, AF196969, AL135960, AJ131016, AF015416, AC004525, AC002303, Z85996, AC007308, AC007227, AC000378, Z68192, AC005105, AC006014, AC005088, AP000510, AL049301, AC002319, AL022726,

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HMQAQ15	3153	659966	1 - 600	15 - 614	AF039185, H94332, R18760, Z44908, AI591051, AL022238, AL121580, AL008721, AF178030, AC005694, Y18000, AL133224, and AC005529.
HMQAQ35	3154	707273	1 - 444	15 - 458	
HMMAR75	3155	919558	1 - 275	15 - 289	AA501441, AA632988, AA714955, AA618240, AI889579, C16358, AA136253, AA664126, AA719091, T94394, AA136477, AI355246, AW019964, H68343, AI306717, AW022891, W95552, AA368329, AW373542, AA494057, AA835778, AW237905, AA055422, AA482792, AI054090, AA630854, AI246061, R93919, AA650447, AI819391, AA378207, AI860535, T54173, AI609972, AI133083, AI300818, AI310992, AA847340, H86579, H93152, AA515939, AA670108, AI364568, AA503018, AA736488, AA683069, AA779667, AA831997, AA641112, AA229823, AA550989, AA594719, AA837771, N27874, AA524616, H78984, AI417586, AI679390, AI679898, AI445774, AA228979, AL040717, AI196552, AI821938, R83068, AW341955, AA344768, AL040763, R34070, AL048479, AI284543, H79586, AA602906, AL042667, AL042670, AA302978, AI254770, AA633424, AI251944, AI300054, AI251034, AI251203, AI309059, AI251284, AL041240, T40629, AA376358, AW271071, F23338, R51582, AA613761, AI250552, R32162, AW090333, AI469140, AA713724, AA345594, AI421723, AA230146, AI355103, AA015948, AW084173, AI962030, R70883, AA358178, AA468975, AA053463, AL119156, AI671077, F34506, AL119182, F24164, AA659425, AI337612, AW080118, R70884, T74524, AA483606, AW082104, AA622801, AL041375, AA347969, AA570740, T51874, AA568204, T93105, H40478, F34151, AA078384, AI249853, AL042373, AA583547, T60316, AA018923, AA012829, AW084967, C06210, AA568949, AW149241, AA503142, AI983447, AI354602, W45215, AA846978, F31634, H43183, R66537, AI925869, AL049563, AC005859, AC004982, AL050341, AL023803, AC005017, AC010582, AP000087, AC006544, AL035686, Z99716, AL110502, AC007221, AC005747, AC004849, AL049691, AC010206, AL022068, Z94056, AC002350, AC007114, AL031602, AC004801, AC005726, AC006312, AC004099, AC007563, Z97054, AL132712, AC004067, AC005920, AI133269, AL022720, AC008072, AF067844, AC004988, AC005538, Z82206, AC002302, AC008498, AL031681, AC003992, AL121923, AC003085, AC006004, AC005191, AL049540, AL049838, AC008008, AC007917, Z95152, AL022329,

HMMAS88	3156	728019	1 - 609	15 - 623	AL021368, AC005669, AL109984, AL022330, AL031671, AL133246, AL133396, AC005035, AC004032, U50871, AC004081, AL031289, AP000497, AL133243, U91321, Z81365, AL020997, Z95115, AC002366, AL096765, AL034549, Z93023, AL021938, AL009179, AC003001, AL049729, AC006116, AC006543, AC005094, AL034420, AF178030, AL133353, AC006557, AL022162, AC003042, AL024498, AL117354, AL132857, AL079333, AC004843, AC008119, AC005277, AC002367, I34294, AC005280, AC005821, AC007182, AC003046, AL035684, Z83847, AC007387, AC003689, AL031667, AC005082, Z98941, AC004134, Z84480, AC004787, U73023, AC000025, AC007687, AL049779, AC004757, AC005527, Z80232, AC006582, AC019014, AL035423, AC005962, AC004585, AC004894, AC007743, AL031177, AL031121, AC009275, Z84474, AC005231, AC007200, AL031291, U89337, AC009501, AC007358, AF130343, AC006023, AC004831, AF121781, AC005182, AP000090, AC002066, AP000355, AC003684, AC004842, Z97053, AL022320, AC005529, AC007938, AC004217, AC007510, AC003664, AC004500, AC007240, AL109956, AF196779, AL049766, AC003037, AC004485, AC006387, AL049869, AC005908, AC008150, D87675, AP000152, AC004765, AP000210, AP000132, AP000248, AL134445, AC004816, AC005544, Z97832, U52112, AC006305, AC005294, AC005532, AL136168, AC006035, AC007193, AC004821, AC004884, AL049569, Z68324, U85195, AF002223, AC006088, AC005703, Z78660, AE000658, AC007253, AC002316, AL121820, AC005696, AL049643, AC006137, AL035563, U82828, AF049895, Z74581, AC004042, AP000008, AP000704, AC004983, AL031584, AL031983, AC003104, AL021546, AC005187, AL096678, AL133355, AP000106, AP000038, AC006501, AL035413, AL121825, AC004797, AC003991, AC006042, AL049830, AC005214, AC005740, AC012384, AC006566, AC000035, and AC006115.
HMMAS91	3157	496192	1 - 455	15 - 469	AA721645, AA303054, AA806653, T94405, AA363078, R02532, T89133, AA729284, AA742815, AW069227, AC004975, AC003665, AF111167, AP000558, AC007382, AL031276, AC009263, AC009516, AC005233, AL022312, AC003070, AL031311, AC004000, L78810, AC004895, AC005017, AF001550, AL049832, AC002470, AL023803, AC005821, AL023577, AC007021, AC003041, AL109798, AC005200, AL021407, AL035086, AC004834, AF029308, Z85986, AL033375, AL035413, AC004257, AC005578, AC005773, AC004955, AC008044, AC004495, AC006445, AC005527, Y12851, AC005808, AL110122, AJ239325, D86566, AL031848, AC007030, AC004019, and AC002991.
HMMAT17	3158	662705	1 - 448	15 - 462	AA889566, AA935287, AL049232, and Z93016.
HMMAT26	3159	681416	1 - 474	15 - 488	AA829056, AA572879, AA828844, AB023049, AL022476, AC006312, AC002470, AL049856, AC004526, AC007308, AC004491, AC005736, AC007376, AC007686, AL049776, AC005839, AC005291, AL031657, L78810, AC000052, AC005071, AC005899, AL031680, AC004955, AC006162, AP000512, AC006277, Z97056, AC004448, AL031295, Z85987, AL021707, AL109628, AC004659, AC002365, AC005244, AC006006, AB023051, AC004000, AC007358,

HMMAT78	3160	733239	1 - 352	15 - 366	AC004019, AC006441, and AC005089.
HMMAU10	3161	964281	1 - 434	15 - 448	<p>AW028950, F01222, AA878492, AA501867, AA773128, A1798041, AA342238, AA552724, A1249688, AA856815, AA857812, AA580572, A1538236, AA219024, AA303054, AA533660, R99533, A1587467, AA429942, AA666215, A1791659, A1077941, T69879, A1336771, AA618035, A1209075, T71936, AA693484, AA767966, A1271762, AA262908, AA436140, A1038304, A1754567, A1569100, AW192599, A1755214, AA508809, AA481811, A1080307, AA558366, AA664248, AA772016, AA410771, N28624, T56025, AA533054, C16638, AA745373, AA557790, A1754105, AA502991, AW339422, AA302978, AA832025, AA744401, AA612727, AA721560, H78195, AA219069, N67313, A1127222, A1471467, AA668587, AA487569, AA632765, AW007424, AA374240, AW242031, AA113126, AA584484, I156633, A1469392, AA229490, A1583448, AA228824, N70449, AA972523, A1860423, N63149, AA502568, AA385775, AA573000, A1819391, AA827383, A1157876, AA947265, AA074143, AA371410, A1252010, A1252880, AA902818, AA642823, A1249365, AA343523, AA714073, AW340905, AW023111, AA654482, AA126814, AA524800, AW073498, AA773881, A1929410, AA775188, A1753672, AA595554, AA503008, H60912, A1869786, N59744, A1762528, A1750950, W04464, AA598605, AA665181, AA046906, AA228979, AA229823, A1459879, AA773171, AA206707, I190878, AA019793, A1267450, AA659048, AA523703, T74259, AC005859, AP000194, A1133448, AP000696, AC005180, A1109798, AP000557, AC003692, AC004887, A1031587, AC000353, AC002375, AF129756, A1133163, A1034420, AC006064, AC005694, AC003108, A1008631, A1050321, AB016897, AC004084, A1022323, AC004492, AP000689, A1035086, AC005513, AC005412, A1109628, Z83826, AF205588, AC002310, A1032821, AC007671, AC005829, AC004466, A1022326, AC005231, AP000704, Z83840, AC007546, AC006014, AC007225, Z98946, AB020868, AC004019, AC006241, A1009179, AC006480, AC004491, AP000555, AC007688, AC005899, AC005399, AC004125, A1035249, A1049776, Z95114, AF064861, A1031287, AC005921, AP000510, A1035685, U95740, AC004531, AF003626, A109623, AC005562, AC009516, AC005015, A1003147, AC006948, AC005488, U52112, A1022316, AC006360, AC005529, A1035073, AC007637, AC007666, AC007686, AC004024, AC003983, AP000247, AC005088, AC005081, AC005841, U91323, AC007386, A1031666, AC002316, A1121658, AB023048, AD000092, AC004811, AC004216, AC003982, A1080243, AF053356, AC002301, AC005049, AC005102, A1133312, AC002120, AC002365, AP000514, AC004522, AC005755, Z86090, AF030453, AC005220, AC006571, AC006449, AC008044, Z98050, AC005216, AP000466, A1035415, AF038458, A1135744, AC005837, A1251973, AC005071, A1034418, AC002563, AC005225, AC004797, AC004626, AP000692, AC007934, AC003086, AC006966, AC005519, A1024508, AC004228, A1109758, A1121754, A1022238, Z95152, A1031984, L78810, AC007687, AC005031, AC006006, AB003151, AC006023, AC007277, A1031123, AC004929, AC004551, A1096791, A1117356, AC006285, U80017, A1008716,</p>

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HMMAV35	3162	707274	1 - 389	15 - 403	AC003042.
HMMAV74	3163	742642	1 - 416	15 - 430	AC000118.
HMMAV85	3164	784221	1 - 253	15 - 267	
HMMAV91	3165	854043	1 - 382	15 - 396	
HMMBD12	3166	866824	1 - 430	15 - 444	
HMMBD29	3167	935775	1 - 501	15 - 515	AA614263, AW195898, AW080413, AL300810, AA525318, AA767276, AA345400, AL942316, AA426571, AL039672, F33785, R02571, AL032037, AL046094, AA554430, AA830936, AA528234, AA644545, F18098, H58588, U91321, AC005781, AC002310, AL022334, AC004834, AC004762, AC005265, AC008044, AF053356, Z83849, AF118808, AC007327, AC005620, AC004143, AC004878, AC005034, AC004084, AC008009, AL024509, AC002287, AC006043, U52112, AC006275, AL031864, AL096791, AC005089, AL034420, AC007057, AC006449, AC005899, Z82178, AL033403, AC002300, AC006238, AC005666, AC003010, AL080243, AC006450, AC004787, AC002302, AL229041, Z99774, AC002420, AL034417, AL009174, AL049780, AC006530, AC002390, AC005874, and AF134471.
HMMBD33	3168	702222	1 - 404	15 - 418	
HMMBD79	3169	490057	1 - 349	15 - 363	
HMMBD81	3170	728362	1 - 338	15 - 352	
HMMBH76	3171	959722	1 - 351	15 - 365	
HMMBI50	3172	868199	1 - 390	15 - 404	AI469003, and AL049776.
HMMBI26	3173	681407	1 - 459	15 - 473	
HMMBJ31	3174	697735	1 - 457	15 - 471	AC004963, and U95740.
HMMBM1	3175	577508	1 - 392	15 - 406	AA635985, AI378817, AA628245, T60029, T59956, and AC004985.
HMMBM2	3176	676996	1 - 499	15 - 513	H64058, H51675, AA424943, AA424944, AA873400, and H64008.

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HMMBM3	3177	855965	1 - 525	15 - 539		H92819, and AC005288.
HMMBM5	3178	729350	1 - 406	15 - 420		AL044245, AW438555, AI702314, H60864, and AC005971.
HMMBM7	3179	771979	1 - 450	15 - 464		
HMMBO43	3180	657400	1 - 365	15 - 379		
HMMBO46	3181	856831	1 - 476	15 - 490		AW006407.
HMMBP10	3182	964268	1 - 359	15 - 373		N83608, and AI127217.
HMMBP22	3183	674272	1 - 346	15 - 360		
HMMBP27	3184	682856	1 - 546	15 - 560		
HMMBQ48	3185	721466	1 - 385	15 - 399		R71573, R71574, and AC008039.
HMMBR33	3186	702221	1 - 537	15 - 551		Z84483.
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HMMBR77	3187	855942	1 - 460	15 - 474	AW151657, AA782334, and AC005295.
HMMBR91	3188	757047	1 - 465	15 - 479	AL121852.

HMMBR92	3189	791274	1 - 330	15 - 344	AL135643, F13749, AI302242, AI753365, AI751162, AW162288, R92640, AI687206, AA947837, AI696793, AW383952, H91844, AA745337, F27015, AA650613, AI046746, F33138, AW381821, AA747889, H48546, M78021, AI628224, AI493264, AI934683, AA779783, AI287921, AI783911, AA714073, AA457754, AW271917, AI927275, AA626829, AA569065, AA262752, AI570943, AI377413, AI357551, AW161636, AA811580, T05319, AW118529, AA339487, AA879053, T03412, AW167154, AA574286, AA558003, AA745356, AI132530, AA613627, AI859280, AA680243, T69679, T03203, AC003688, Z99943, AP000692, AL096818, AC007030, AC006101, AC007993, AC005288, AC004408, Z85986, U29953, AC005971, AP001054, AI022328, AC007536, AC005914, AF015720, AB023049, AC006057, AP000512, AC002072, AI133243, AC002425, AC005746, AC005211, AI031279, AC003035, AC005189, AC005356, AI031297, AC007684, AI229041, AL022316, Z98750, AC006273, AL049869, AP000208, AP000130, Z97195, AC006211, AC004622, AL034548, AL034555, AL033517, AL096763, AC005274, AC006064, AC005740, AP000247, AC018767, AP000553, AC007227, AL031055, Z98884, AC004796, AL035587, AL049712, AF196969, AC006257, AC004216, AP000557, AI034419, AC004750, AL023803, AC005839, AL049776, AC004552, AC005599, AC005899, AC003957, AC004647, AC005104, AC006538, AC004975, AC004999, AC005284, Z86090, AL021397, AC006050, AC004983, Z98200, AC005874, AF134471, U73023, AC005178, Z93244, AC007735, AC000385, AC006581, M87889, AP000045, AF031078, AL031599, AC002302, AC005363, AC005606, AC004477, AF030876, AL121655, AC000026, AC002059, AL031670, AC007250, AC000113, AL031584, AL132985, AC007114, AL080243, AL034409, AC005254, U47924, AC004595, AC005225, AL079305, U91321, AC007263, L48476, AF037222, AC004042, Z69917, U73641, AC002558, Z85987, AL031778, AC005220, AC008394, AC007277, U50871, AL021807, AL050402, Z82214, Z84487, AL031311, AL117536, AL021395, L47234, AL050341, AL133448, AB014077, AC005330, AC004209, AC006139, U62293, U63721, AC005057, AP000514, AI022163, AL096791, AC006120, AC000114, AL049829, AC003664, AC004019, AC004150, AL117340, L44140, AF002223, AL033397, AF190465, AL022151, AC002527, AC005280, AC004895, L06849, AC004913, AF124730, AF124731, AF020803, AL049867, AP000694, Z95703, AC004066, AC005520, AC005940, AC007630, AL049834, AC006511, AC003101, AL133163, AL132987, AF045555, AL034379, AC004099, AC002377, AC007011, AC005081, AC000052, AC006449, AC004966, AL035659, AC006312, AC004813, AL021394, AL033521, AL035415, and AL035603.
HMMBS41	3190	711733	1 - 296	15 - 310	F33940, and AL035652.
HMMBS61	3191	741656	1 - 403	15 - 417	T70715, and Z92846.
HMMBT27	3192	682325	1 - 324	15 - 338	
HMMBU27	3193	716049	1 - 545	15 - 559	AI446464, AA513181, AA513141, AA441788, AI064864, AI469172, AA715270, AI133164, AI754955, AI569086, F28576, R77905, AA136004, AA340747, AA634911, AA649642, AW072923, AA525127, AI049722, AI284640, AA747472, AA618141, AI246796, AW021583,

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HMMBU75	3194	490083	1 - 350	15 - 364	AC006987.
HMMBU78	3195	773426	1 - 696	15 - 710	W02201, H78487, and I178389.
HMMBV17	3196	662684	1 - 463	15 - 477	AI792272, AL121235, AI954248, AA018823, AI698342, AA654781, AI866487, AA730798, AI471887, W24602, AI470646, AI468899, AA679936, AL138455, AI312309, AA478355, AI732120, AW085780, AA680243, AI049508, AW089101, AW003867, AI088768, AA533333, AA279365, AI366993, AA012964, T03217, AI950983, AA640410, AA640430, AI754336, AW023302, AI611895, AA088727, AW275498, AA515644, AA746719, AI358384, AL041146, AL138396, AI431303, T61978, AI753929, AL119649, AA833896, AA833875, AI791913, AI792133, AI821714, AI821044, AA081462, AA876445, AL037574, AA099939, AL046519, AI816141, AL079637, AL040921, AA228349, AL036413, AW022065, AL044441, AI042311, AA847952, AA729697, AA634853, AL036037, AA601876, AA483256, AA582549, AW263415, AI873852, AW380254, AI633479, AI732151, AI828710, AA774059, AI457397, AA515440, AL121207, AL046457, AA493136, AI754567, AI754105, AI755214, AA570602, AA303007, AI124610, AL134519, AI680562, AI886654, AL134972, N99489, T09124, AI609464, AA478866, AW022406, AI754253, AA588001, AW327868, AI499451, AI691091, AI524515, AI635217, AF034176, N49368, T60156, AI572924, AI991323, AI630176, AI119306, AA503039, AA618452, R17793, AA516058, AW168383, H72530, W20344, F05324, AI862939, AA493708, AW028429, C16438, AA916171, AA358515, R94326, T73699, W52505, AI821785, AL118991, AA377385, M77938, AI079389, AL042635, AI751216, AI446682, AW410354, AA478867, AA551552.

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HMMBV53	3197	727572	1 - 201	15 - 215	
HMMBV71	3198	490078	1 - 369	15 - 383	T73734.
HMMBX63	3199	729268	1 - 313	15 - 327	AA905066, AA767350, A1696646, H71659, Z98036, AL109758, AC005914, AF111168, AC002425, AC005072, and AC004551.
HMMBZ91	3200	753799	1 - 411	15 - 425	AC005877.
HMMCA43	3201	715085	1 - 434	15 - 448	
HMMCB67	3202	735293	1 - 755	15 - 769	R10827, AA165653, AA678092, AA165550, and Z95152.
HMMCC09	3203	625368	1 - 468	15 - 482	W27527.

HMMCD21	3204	670651	1 - 182	15 - 196	
HMMCE16	3205	577388	1 - 283	15 - 297	AF067844, and AF143313.
HMMCE26	3206	935148	1 - 522	15 - 536	H71992, AA508364, AA508371, and A1174714.
HMMCF94	3207	913661	1 - 485	15 - 499	AA565911, AW238341, A1904445, A1143653, A1192839, AA209436, A1709180, A1251944, AL04818, AW073950, F16409, AW390601, T05617, R19199, A1445557, AW337805, N54397, A1917904, AA337978, A1269639, AA299351, C06329, AA678616, H61871, A1080732, A1619994, A1054090, AA566084, AA502101, AA364315, AA582746, AW373645, I168343, A1926597, N23919, A1633386, A1246061, R89560, H53085, AW057719, A3372799, A1791291, A1791469, A1249365, A1567391, A1732514, AA527109, A1732243, AA658934, AA054055, A1298079, AA610255, A1284543, AA825784, AL138252, AA114131, AL042373, A1254770, A1783820, AL042667, AL042670, AA586433, W96277, AA081770, AA603432, A1571161, AW190484, A1251034, N64437, Z85987, A1236701, AC005520, AL031685, AC000085, AJ006995, AL034421, AC006241, AC002101, AC005256, AC007363, AC007263, AC003070, AC007114, AL078581, AL031657, AC004491, AC004985, AC007055, AC004526, AC004991, AC002470, AC005324, AC006023, AC004686, AC004687, AL080243, AF053356, AP000692, M26434, U07563, AC005730, AC002351, Z98752, AL022311, AP000359, AF134726, AL031651, AP000350, AC004834, AL034549, AC004383, AC003030, Z97353, AC004583, AC005914, AC006512, AC004859, AC006441, AL031681, AC004796, Z85986, AL035405, AC006251, AL031295, AC002996, AP000228, AL035658, AP000088, Z98050, AC005565, AC004531, AC004858, AC006312, AC005535, AC005920, AP000140, AC002369, AF109907, AC002350, AL021918, AF196969, AC005844, AF165926, AC005993, AC005089, AC002395, AC009516, AC005399, AC005696, AF217403, AC004131, AC005409, AL109827, AC005067, AJ251973, AF001549, D43727, AL034418, AL050308, AC000379, AC005911, AP000126, AP000204, AC002312, AF001552, AL096712, AC004019, AC005049, A1022322, U52112, AC006273, AC005212, AL035086, AF196779, AF111163, AC002504, AC006121, AC000082, L78810, AL031229, AC005837, AC004150, AC006111, AC006277, AL031588, AC006501, U91323, AC003029, AC005071, AL049643, AL031803, AC002407, AL031848, AC007486, AC005037, AC007225, AL049766, AL049591, AP000244, AL031678, AL034420, AC004884, AL133445, AL021878, AL109758, AL049856, AJ003147, AC006317, U85195, AL049653, AC005206, AC005003, AL079301, AC004223, Z99716, AC005231, AC002994, AL031597, AL049569, D84401, AP000704, AE000658, AL008734, AC005211, AL133163, AC010206, AC004844, AC005328, AF091512, AL031291, AC002426, AL031672, AC000025, M29929, Z68323, AC002551, AL035455, AC005924, AL031846, AL022326, AF067844, AF045555, AC006001, AC004953, AC003687, AC000070, AC005667, AC006064, AC005736, U95740, AL035415, AC007388, AC005081, AC006360, AC011625, AL023694, AJ133269, AC009501, AL031123, AL133245, AC004814, AL096701, AC005899, AF207550, AC005529, AC006511, Z98950, Z95115, D87675, AC009405, AC001227, U82828, AP000510, AP000501, Z95152, AC005005,

HMMCH04	3208	944069	1 - 670	15 - 684	AC004912, AC007546, AC005552, AC004967, AL049869, AL031432, AC007450, AC002365, AL008730, AL031737, AP000008, AC006571, AC007021, AL122020, AL033527, D87012, AC006126, Z75887, Z93244, AL049780, Z97053, AL121769, AC009263, U91321, AC002404, AC007308, Z68164, AL049843, AL121603, AC004020, and AC005940.
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HMMC103	3209	923771	1 - 385	15 - 399	
HMMC143	3210	864098	1 - 430	15 - 444	H60700, AA465255, AA984765, R51650, N31773, R93782, AI265884, N56201, and AF151819.
HMMC167	3211	587819	1 - 479	15 - 493	
HMMCJ83	3212	855918	1 - 425	15 - 439	AC002302.
HMMCJ93	3213	708060	1 - 661	15 - 675	
HMMCCK81	3214	666792	1 - 346	15 - 360	AC007165.
HMMCNC36	3215	919484	1 - 463	15 - 477	
HMOAC95	3216	677110	1 - 206	15 - 220	
HMPAA21	3217	670114	1 - 546	15 - 560	N59555, AA362113, and AA362136.
HMPAE62	3218	754152	1 - 270	15 - 284	AA362224.
HMPAP52	3219	709621	1 - 264	15 - 278	

HMPBA34	3220	705509	1 - 450	15 - 464	AA362267, AA362266, AF017104, and AC016831.
HMPBB11	3221	855911	1 - 318	15 - 332	AA362334.
HMPBA49	3222	723299	1 - 324	15 - 338	
HMPTE27	3223	684607	1 - 394	15 - 408	
HMPTE84	3224	954383	1 - 491	15 - 505	AC002112.
HMPTE69	3225	932799	1 - 355	15 - 369	
HMQAB40	3226	712805	1 - 485	15 - 499	AI523941, AA055449, AA232904, AA233033, and AA055448.
HMQAG45	3227	723493	1 - 347	15 - 361	
HMQAL95	3228	684917	1 - 307	15 - 321	
HMQAO34	3229	706341	1 - 250	15 - 264	
HMQAP31	3230	825480	1 - 208	15 - 222	AW044231, and AC003681.
HMQAS25	3231	923515	1 - 469	15 - 483	
HMQAU20	3232	384780	1 - 359	15 - 373	T87899.
HMQAX65	3233	856318	1 - 295	15 - 309	AL021453.
HMQBD30	3234	714031	1 - 352	15 - 366	AA933089, AI680336, AW157317, AA523285, AW170427, AW170278, AA974441, AI027987, AI074894, AA102451, AI631081, AI591067, AI992135, AA643152, AI357176, AA577581, AA148225, AI031764, AW166779, AI857843, AI027266, AI568168, AA862399, AA205564, AI923284, AI951177, AI185759, AI924241, AW193281, AW79812, AI280897, AI928891, AI580036, AA824336, AA523194, AI208491, AW162293, AA417116, AA512937, AA166670, AI138933, AA410871, AA843221, AA497015, AI090410, AW327970, AI366939, AI891047, AI372093, AA417257, AA776942, AI083704, AA776511, AA580420, AA860537, AA716753, AI094406, AA827004, AI817572, AI027989, AI673583, AI276716, AI245211, AI986389, AI073857, AA595784, AI816482, AI751720, AI439302, AA976926, AA771950, AA088664, AI520873, AA813071, AA458901, AA878692, AI252636, AI039067, AA860792, AA399535, AA722780, AI538971, AA971121, AA995822, AA722354, AA480057, AI887538, N24774, AI282434, AA625734, AA968695, W31392, F33205, AA292590, C05840, R53540, AI439351, AA428428, W15347, AA757714, AI192786, AI929797, AI085365, AI439295, AA971044, W95395, AA923667, AW162981, AW161746, AA383387, AA158971, AI073973, H92319, AA156280, AA890640, AA581636, AA158959, AA640130, N32793, H17478, AA130481, AA907137, AA130482, H29049, T38022, AA886217, AW172803, AI761395, AA235711, F36843, AA488204, AA284912, AA426152, AA643884, AW250923, F17431, R49138, AW130002, F33987, AW148600, AI004901, AI566499, AI751319, AI869823, AA662261, AA643919, AA505425, AA669508, AI537266, AA587451, AA477813, AI885826, T86930, AA374990, R17686, AA397788, N94618, AA296827, AA553934, AA158603, AA459096, AA235724, AA402833, F03779, AA635762, AA877354, F02931, AI886255, AI768303, AW068766, AI369668, AA421441, AA410723, AA402684, AA969529, AA852879, AI309009, AA402130,

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HMQRH12	3235	825460	1 - 250	15 - 264	A1800901, A1651852, A1654079, A1500417, and A1008730.
HMQBL13	3236	723212	1 - 397	15 - 411	
HMQBL17	3237	664904	1 - 266	15 - 280	
HMQBL54	3238	708075	1 - 292	15 - 306	AA809189, AC005280, AL110150, J03818, and AC002115.
HMQBM27	3239	855902	1 - 265	15 - 279	A1373509, AW015352, AW131241, and A1500443.
HMQBM59	3240	708073	1 - 332	15 - 346	
HMQBN41	3241	683723	1 - 249	15 - 263	AC005994.
HMQBO17	3242	720569	1 - 306	15 - 320	
HMQBP18	3243	707279	1 - 356	15 - 370	AW369276, AF199364, and AC004893.
HMQRP26	3244	684887	1 - 297	15 - 311	W79802, and AA773227.
HMQBP54	3245	855900	1 - 321	15 - 335	
HMQBT65	3246	708065	1 - 294	15 - 308	A1887232, and T78614.
HMQBU96	3247	765162	1 - 404	15 - 418	AA453179, R71855, AA043907, F07759, AW248202, AA302385, AL047640, AA284122, H18360, H19959, H20698, H21242, AA434198, H46841, AA292979, AW247172, D52938, AA131344, AA203288, Z45125, H85906, AA017593, R81429, AW381812, AW392072, T19067, R55922, AA306741, AW381820, AW381788, T32135, R48687, W93644, D56251, AA308717, R59408, AA017424, R61099, H08032, R19873, AA321261, AA069353, AA410846, AA843927, W93904, AA984067, AA477522, AA523404, AA582827, A1885457, AA861765, and AC005067.
HMQBW05	3248	932509	1 - 146	15 - 160	
HMQBW76	3249	954587	1 - 204	15 - 218	AA381112, T29768, and AA381110.
HMQBX07	3250	954058	1 - 255	15 - 269	
HMQBX35	3251	707280	1 - 353	15 - 367	
HMQBX74	3252	932510	1 - 122	15 - 136	
HMQBY10	3253	968348	1 - 404	15 - 418	
HMQBY34	3254	706338	1 - 119	15 - 133	
HMQCC67	3255	740625	1 - 304	15 - 318	
HMQCK09	3256	384771	1 - 192	15 - 206	
HMQCO77	3257	839604	1 - 359	15 - 373	A1910103.
HMQCV51	3258	725828	1 - 346	15 - 360	
HMQDA84	3259	783174	1 - 243	15 - 257	
HMQDC34	3260	855890	1 - 335	15 - 349	N99626.

HMQDC96	3261	765810	1 - 298	15 - 312	Z97989.
HMQDD41	3262	575536	1 - 347	15 - 361	
HMQDE85	3263	963366	1 - 333	15 - 347	
HMQDN16	3264	712588	1 - 343	15 - 357	AC005576, AF117947, and U77631.
HMQDN77	3265	772436	1 - 406	15 - 420	
HMQDQ84	3266	783176	1 - 419	15 - 433	
HMQDZ19	3267	940694	1 - 155	15 - 169	AA630827.
HMRAD49	3268	868185	1 - 398	15 - 412	H13140, AA613909, AL031594, AL031274, and AF000696.
HMRAD74	3269	765975	1 - 560	15 - 574	H72232, AA650447, AA713724, A1678754, AA001345, AC004805, U91318, AC003663, AP000466, AL021578, AL109946, AC004832, AC005911, Y10196, AC007546, AC005225, AC007993, AL049843, AC005778, AP001052, AC007057, AC004685, AC004967, AC005081, AL034417, AF031078, AF030876, Z98304, and AL031602.
HMSAC03	3270	960949	1 - 401	15 - 415	
HMSAH89	3271	935429	1 - 470	15 - 484	N35693, AA312724, A1915293, AA381762, H54210, AA347927, H71250, A1460103, AA593471, AA347930, A1623563, A1270476, AA601986, AA487219, A1076236, A1338426, AA487079, AW383952, R92301, AA358623, AA634209, F33138, AA604843, A1305258, A1090334, A1791150, R70883, AA372778, R70884, AA599423, AA573213, AA761795, A1803809, AA702618, R90740, AA526757, AA650135, AA341228, AA367788, AL046746, AW265688, H80203, AA828867, AA614010, A1284108, A1888405, AA939320, AA828047, AA781504, H85059, A1471572, AW264264, H40017, AA551339, A1096403, AA347565, AW407919, Z99496, AP000493, AL031431, AP000964, AC003689, AC000118, AL034548, AC006270, AL022323, AL078477, AC008101, AC016027, AC016830, A1250915, AL096702, AC009275, AC002558, AL080243, AL020996, Z49237, AC003663, AC005209, AC008079, Z93023, AC002350, AC007686, AC002106, AC006080, AC005914, AC007784, A1010597, AL034449, AC004890, AC007057, AL049872, AL034418, AL031735, AC007435, AC005193, AC002045, Z82215, AL035703, AL049780, AC006530, AC000095, AC005512, AC007436, AP000336, AL049540, AP000215, AP000475, AC006211, AC008154, U91321, Z49194, AF008243, AB015355, AC006602, AC004934, AC004525, AC007136, AL034555, AL035653, AC005874, AF134471, AC005081, AC005229, AC001228, AL121595, AC004865, AC006117, AC005257, AC006261, Z68756, AC005944, AC004685, AL096701, AC000052, X87344, AL049830, AC004019, AF003626, U78027, AL049709, AL022313, AC002073, AL035422, AL109837, AC004859, AL121576, AL032821, AC006501, AC008122, AC004061, AC010205, AC004196, AL031055, AC005295, AL020997, AC005409, AL035443, AC007277, AL035415, AL117258, AC005832, AL139054, AC005330, AC005778, AL021397, AC006973, AL031681, AC005725, AC005476, M90058, AC002398, AC003041, AC002996, AC005399, AC005242, AC008928, AC007993, AC007546, AC009363, AL121655, AF111167, AC000134, AL109627, AC005726, AL008718, AC005921, AL096791, AC008009, AC006487, AC006480, U29953, AC002057, U82668,

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HMSAI08	3272	960482	1 - 372	15 - 386	AC007401.
HMSAI44	3273	715726	1 - 363	15 - 377	AW452096, AW450553, AI887415, AL042655, AL042654, AW295630, and AL035405.
HMSAO46	3274	720686	1 - 408	15 - 422	
HMSAP87	3275	383902	1 - 341	15 - 355	
HMSAQ64	3276	747120	1 - 374	15 - 388	W38562.
HMSAS62	3277	754156	1 - 373	15 - 387	
HMSAX08	3278	960446	1 - 448	15 - 462	
HMSAX13	3279	961032	1 - 352	15 - 366	
HMSAX31	3280	698439	1 - 365	15 - 379	
HMSAX32	3281	702992	1 - 345	15 - 359	
HMSAX33	3282	727443	1 - 451	15 - 465	F24792, H77666, AA594145, AC005971, AC004491, AC003663, AC019014, AL133245, Z95703, and AC005602.
HMSAX85	3283	953708	1 - 317	15 - 331	
HMSAZ07	3284	855878	1 - 186	15 - 200	
HMSBB19	3285	707489	1 - 560	15 - 574	AI910889, AI524744, AI347447, R72293, AA765015, AA736789, AA808343, AA865106, AW182983, R71382, R72338, and R70163.
HMSBB44	3286	715738	1 - 339	15 - 353	AB033020.
HMSBF59	3287	722005	1 - 416	15 - 430	AC004687.
HMSBF84	3288	739001	1 - 235	15 - 249	
HMSBH79	3289	683595	1 - 296	15 - 310	
HMSBI72	3290	925288	1 - 331	15 - 345	AL035073, and AC007446.
HMSBM43	3291	510964	1 - 605	15 - 619	AA577706, AI733856, AA315052, AA491941, AA904275, H67155, AA657835, AA664135, AI061313, AL079734, H79591, T74524, T46960, R76686, AA632744, AW271904, AL042667, AL042670, AW023111, AW069412, AW104161, AA071334, H60813, AI380617, AW265688, AA525423, H07953, AA641651, AI791185, AI056177, AA410788, AI754170, AA55232, AI541154, AA833896, AA833875, N29105, AI560866, N66065, AA595770, AI569401, AA502149, AW265614, AL134330, AL031005, AC007376, AC006071, Z97054, AC005722,

					AC007182, AC006312, L78833, AL050332, AL033397, U91323, AC005696, AC004217, AL031282, Z93930, AL031588, AC004812, AF117829, AC007349, AC004771, AC005839, Z85986, AL008726, AL121603, AP000251, AC002565, AC008072, AC005914, AP000212, AP000134, AP000030, AL031447, AC004895, AF111168, AC007537, AC007308, AC004841, AC005527, AL096703, AC002550, AC004067, AL035249, AC006538, AL049611, AC007536, AC002302, AP000558, AL031228, AL096791, AL136295, AL109914, AL022165, AC007664, Z84466, AC004797, AL024507, AP000689, AC007052, AC008018, AC005081, AP000043, AP000111, AC004655, AC007421, AL022329, Z84487, Z84469, U95742, AL031281, AC005529, AC002425, AF109907, AC004526, AC005482, AL031657, AL022721, AP000694, AC005412, AC005972, Z82244, AC007216, AC008154, AC006501, AL121658, Z98304, AB023050, AC006121, AC004491, AC006001, AC005089, AP000152, AC002477, AC002400, AP000140, AC005338, AC006006, AP000511, AC005670, U91318, Z73358, AC007637, AC007055, AL008582, AL035086, Z93023, AC016027, AC005082, AL080243, AC004253, AC016830, AC002472, AF031078, AP000011, AC004874, AP000088, AF030876, AC005901, AC009516, AF129756, AL109984, AC004821, AL133244, AP000353, AF196779, Z85996, AL050341, AC004887, AC006531, AC004805, U95740, AC03983, AP000116, AC000025, AC004854, AL080317, AC000052, AL133243, AC007546, AL023575, AL022327, AC004019, AL031311, AC005088, AL139054, AC008009, AC006277, AL049779, Z82176, AL049694, AF196969, AC000090, AL031284, AL031666, AC007684, AC007298, AC005037, AC003108, AC005921, AP000114, Z92546, AL034421, AC005288, Z83846, AC005841, AC006449, AF091512, AL021918, AL133246, AC006509, AC004656, AL008715, AC007371, AL021920, AP000512, AC009405, AP000514, AF024534, AC016025, AL049832, AC005740, AL031733, AC005751, AL121595, AC006946, Z95152, AC006014, AC007057, AP001053, AC002070, Z98751, AC005971, AL031055, AP000240, AC005209, AL031120, AC006011, AC005488, AL121769, AP000008, U47924, AC005880, AF064861, Z83844, U96409, AP000552, AL035458, AL031683, AC004590, AL110502, AL031681, AC004955, AC004816, AC002347, AC009248, AC004622, AC005306, AC006236, AJ003147, AC007938, AC007384, AC004148, Z98884, AC006120, AC007406, and AC005913.
HMSBM81	3292	383978	1 - 339	15 - 353	
HMSBN71	3293	766408	1 - 227	15 - 241	
HMSBO55	3294	715684	1 - 135	15 - 149	AI579937, N47104, AA805339, AA768366, AI078743, AC005774, and Z93019.
HMSBP46	3295	719425	1 - 127	15 - 141	
HMSBP80	3296	855871	1 - 373	15 - 387	
HMSBQ93	3297	745862	1 - 406	15 - 420	
HMSBS51	3298	708662	1 - 348	15 - 362	
HMSBS63	3299	926833	1 - 440	15 - 454	
HMSBS86	3300	785804	1 - 533	15 - 547	AL121998, D83253, Z70689, and Z97054.

HMSBU22	3301	677327	1 - 230	15 - 244	AW117257. R94422. AI621141, AA640155, AA569180, AA376315, AI922061, AA664366, AI052560, AA501775, AA280232, AA055576, AA258511, AA487808, AI940701, AI820994, AA593381, AA180278, AW238615, T03028, AA641592, AA601152, AA720812, D59168, T62761, AI132952, T85549, T47477, T47541, N62150, AA353087, R90980, AI800268, AA780549, AA584099, AA225638, N32456, H54464, T03216, HI3261, AI117339, AF205588, AI022345, U82828, AI049710, AC005386, AC005018, AF049895, AP000146, AI022576, AC007488, AI121877, AC008929, AC007380, AC004075, AI023581, AC002412, Z82212, AC005297, AC004677, AC005341, AI096827, Z99571, AC004855, AC007567, AC004158, AI022310, Z93019, AC002429, AF172277, AI110505, Z82211, AF003529, AC016046, AC007514, Z83745, AC006481, AI136297, AI022394, U82696, AI117351, AC005076, AI030996, AC000114, AI049844, AI050339, Z92844, AI008722, AC006462, AI049589, AC004470, AC003106, AI080248, U69730, AC002070, AC000378, Z71187, AI022154, AC008169, AC004842, Z98255, AC006946, AC006548, AC009802, AI049743, AC006313, AI050309, AP000083, AC004029, AP000692, AC005378, AC002564, Z74477, AC002463, AC004908, AC002449, AI049778, AC004083, AC004049, AI022101, AI121782, AI121654, AC002454, AI133247, AF070718, AI009047, AC006152, AC011198, AC006070, AC007317, AP000476, AC004047, U66059, AC007243, AC007065, AI109628, AC004161, AI079334, AC000056, AC004451, AC005064, AC004823, Z77249, U72789, AI009028, AC003099, AC003658, AI034370, AC006979, L11910, AC006461, AI031665, AI035252, Z95124, AI080239, AC005201, AI031286, AI031652, AI121757, AC000119, AI133500, AI049838, AC006043, AI031671, AI078588, AI022157, Z82205, AC002524, AC007286, AC005273, AC007032, AC007533, AC007966, AI049834, AC006203, AC006356, U96409, AP000460, AC009308, AC016831, AC005352, AI049696, AC007159, AC006427, AC006840, Z70274, Z71182, Z82210, AC005588, AI023875, AI049734, AC007239, AI035563, AI121823, AC005873, AC006249, AC005034, AC002994, Z82215, AI022150, AI031114, Z69649, AF109076, AC004613, AC004894, AC005516, AC003037, AC006040, AI049874, AC004917, AI009173, Z68280, AI031679, AC006455, AC004067, AP000457, AC005050, AC005019, AC006952, AI035698, AI239329, AC005498, AC002040, AI136520, AC003973, AC004384, AC005593, AC003676, AC002488, AP000547, AI035258, AI035688, AI121871, AC004615, AI034410, AC005739, AI050334, AC005900, AC004617, AI022401, AI096803, AB014078, AC006139, AC007007, AC004959, AC000055, AP000514, AI049634, AI031663, AI033521, AI049557, and AI109941. AA699358, R94584, and AF093097. HI6746, AI989391, AI651717, AI080151, AA573388, AA927298, AA830295, AA805889,
HMSBU68	3302	709231	1 - 295	15 - 309	
HMSBV28	3303	970579	1 - 429	15 - 443	
HMSBX38	3304	761392	1 - 467	15 - 481	
HMSBX59	3305	558203	1 - 291	15 - 305	
HMSBZ69	3306	866997	1 - 757	15 - 771	
HMSCA33	3307	702821	1 - 413	15 - 427	

					Z41058, A1864771, and AA729846.
HMSCB10	3308	968514	1 - 191	15 - 205	
HMSCD14	3309	924890	1 - 145	15 - 159	
HMSCD15	3310	918133	1 - 1223	15 - 1237	AA828277, A1707568, A1333720, W33154, A1880870, AA848014, AA864599, N50622, AW087770, AW270419, AA761244, AA262754, AA779760, A1880826, AW407353, W37119, AA206843, Z42584, AA206842, and AB011126.
HMSCD45	3311	707281	1 - 316	15 - 330	AB017652.
HMSCD07	3312	954242	1 - 430	15 - 444	
HMSCD37	3313	524245	1 - 344	15 - 358	AW276877, A1310873, AA359994, AA074342, A1345366, AW190781, AA243530, AA346466, AW438765, AA811208, A1909706, AW082470, AW274078, AA837708, AA527602, AA599558, AL135262, N58329, AA804995, M77893, N71033, AA630854, AA527727, AA908331, N26617, AA372305, AA452325, N72307, AA630145, AA601630, AA654661, A1750865, AL134278, AA804466, A1628303, A1679540, AA427470, A1679978, A1675933, A1540851, AA468223, A1031277, AC007327, AF196972, AC003009, AL022313, AC006023, AL008725, AL031846, Z93244, AC006312, AP000513, AL022316, AC007546, AL139054, AC006537, AL133245, AL080243, AL022143, AL031120, AC004598, AC006344, AL034423, Z84486, AC005821, AC005154, AL022336, AC005668, AL023284, AC005546, AL009172, AC005619, AC000379, U95090, AC004821, U08988, AC004913, AP000500, AL109798, AL022476, AL035251, D86998, AC006130, AL020995, AC005042, AC007011, AP000553, AL031681, AC005539, AC009263, AL023575, AL049759, AL035494, AL035090, AC003077, AF165176, U95740, AF008191, Z73359, AC005971, U85195, AL031659, AC004185, AC006047, AC007707, AL023807, AC005179, AF045555, AE000658, AC005175, AC002044, AC007277, AC002312, AL031597, AC009247, AB023051, AC006571, AB023049, AC008101, AL117330, AL121825, AC002563, AL034400, AF139813, AC002288, AC004743, AC006505, AP000030, U91326, AL132708, AC005399, AC004858, AC004152, AC002544, AC002126, AP001053, AC010205, U66698, AB014540, AL022315, AC005081, AC005778, AL049757, Z95115, AC000094, AC005695, AC004560, AF106564, AC005777, AF109907, AC005968, AC005933, AP000509, Z99297, AC007192, AC002316, AL050350, AP000512, AC004234, AC006211, AL023803, AC004583, AC004526, AC001231, AC004885, Z95116, AC006466, AC004491, AC006450, AC005537, AC016025, AC004131, AP000295, AC004106, AC007845, AC002350, AL031985, AL109758, M89651, AF181449, AC005874, AF134471, AC005089, AP000501, Z99127, AC004933, AC007227, AL031290, AC002365, AL096701, AL035405, AC002996, AL034420, X87579, AC004662, AL050307, AP000098, AC005800, AC005379, AC007243, AL031273, AC005542, AL024498, D84394, and AC004659.
HMSCF41	3314	951821	1 - 761	15 - 775	AL523579.
HMSCF54	3315	731011	1 - 354	15 - 368	
HMSCF58	3316	747250	1 - 73	15 - 87	

HMSCI26	3317	530239	1 - 651	15 - 665	AP000334, and AP000173.
HMSCK06	3318	960601	1 - 376	15 - 390	AI610751, AL096706, AC005256, AC005214, AC005145, AL133448, AC005354, AP000533, AC007435, AC005321, AL096774, AC002477, AC005682, AC002314, AL049843, AC002367, Z95152, and AL034369.
HMSCK17	3319	717703	1 - 484	15 - 498	
HMSCK38	3320	967576	1 - 650	15 - 664	Z82195, AF067787, AF067788, AC004257, and AC006511.
HMSCLO1	3321	921754	1 - 352	15 - 366	
HMSCM10	3322	926836	1 - 802	15 - 816	AA527731, AI821508, AA532420, and NS2655.
HMSCM95	3323	884019	1 - 295	15 - 309	AC004765.
HMSCO18	3324	917009	1 - 439	15 - 453	AL121748.
HMSCO39	3325	709592	1 - 284	15 - 298	AP000496.
HMSCO60	3326	739685	1 - 384	15 - 398	T93243, and AL033518.
HMSCO70	3327	879436	1 - 356	15 - 370	AA018611, AA634223, T99365, AA613954, AI537407, Z98051, AL022320, AL022476, AC006241, AP000556, AC005089, AC000039, AL049694, AC007421, AC004887, AP000045, AC005015, AC004099, AP000557, AP000501, AF064861, AC005081, AC002310, AF047825, AC004841, AC007686, AC007124, AC005971, AC005412, AP000113, AC004854, AL031657, AC005082, AC005527, U91321, AL035422, AC004815, AL050324, AC007868, AL133353, AF134726, AC004263, AC007541, AL022322, AC003982, AC007707, AC005837, AF196969, AL109984, AL121603, AF088219, AF053356, AC005220, AC005702, Z83844, AF038458, AC009247, AC005529, AC005520, U78027, AC006505, AF030876, AE000658, AF031075, AC006130, AC003030, AC005914, AP000300, AL033525, AC003108, AJ229041, AL031846, AC004797, AC005666, AC005207, AP000502, AC006112, AL031273, and AC005409.
HMSCR39	3328	601504	1 - 593	15 - 607	AL138265, AL040921, AL038705, AI872227, AI149478, AW406447, AL046205, AL042853, AA515829, AI801482, AW327868, AI281881, AI334443, AW029038, AW270270, AI924251, AL045053, AA610491, AI133164, AL045526, AI963720, AA210852, AI679782, AL046409, AA469451, AW162049, AW406755, F36273, AI929531, AL120687, AI811687, AI345675, AI358229, AI284640, AI683577, AW276817, AW193265, AW088202, AI044858, AW021583, AI431303, AI904894, C06327, AI962050, AI148277, AW088224, AA526787, AI049722, AA581903, AI339850, AL038785, AI708009, AI350211, C05755, AI608771, AI365988, AA649642, AW088058, AI613280, AW162489, AA587604, AI471534, AA178953, AI345681, AA192740, AI471543, AA468131, AI053672, AW438643, AW338086, AI287651, F29989, AI192631, AI341664, AI053790, AI134367, AI281903, AI254615, AI289067, AI918421, AI061334, AA661948, AI917271, AA613227, AA577906, AI119691, AI619997, AI307201, AI471481, AA521323, AI305547, AA601355, AI457397, AW238583, AI688846, AW440836, AA523810, AI270117, AA826303, AI345654, AA652057, C75026, AI745325, AI744995, AW072587, AL038474, AI198376, AW439558, AA501784, AI754658, AI358571, AI053606, AI298710, AA533725, AI589230, AA631507, AI279165, AI005388, AW265009, AI623720,

				AW193432, AA127916, A1375710, AA679124, AL042420, AA483771, A1821714, A1792133, A1791913, F32808, AA521399, AA720702, AW339687, A1085719, AW062724, AA594145, A1160117, AA177061, AA523815, AC005694, AC008372, AC005529, AC006254, AC005527, AC006120, AC005932, AC005274, AC006141, AL020995, AC004477, AC007221, Z83826, AC005280, Z95704, AC007664, AC007666, AL031311, AC006285, AC005288, AC012627, AC005722, AC002470, AL096701, AC005488, U47924, AL031662, AL121603, AP000356, AL050306, AL078593, AC005409, AC000052, AC004531, D84394, AL121754, U85195, Z94721, AL034549, AC005821, AC006511, AL136295, AC006312, AC006077, AC007686, AE000658, U15177, AL049795, AL109628, AL035079, AC006960, AC004854, Z83840, AC005914, AC005566, AL049776, AP000359, Z93930, AC004832, AC007541, AC004796, AC005212, AC009247, AC004878, AC004797, AP000961, AL008629, AC005089, U91322, AC007226, AJ246003, AL050312, AC002350, AL021394, AC004848, AP000302, AL022237, AC005915, AL049569, AL008582, AL033525, AL021877, AL109801, AL022311, AC005772, AF030876, AJ006998, AC006064, AC005829, AL122020, AL133448, AC004841, AP000513, AL031848, AC006116, Z98036, AF111168, AC005874, AF134471, AC004821, AD000092, AC002430, AC007546, AC005695, AL133246, AL139054, AL121653, AF020803, AL023284, AL035420, AF088219, AC006101, AC004263, AL034429, AL109627, U95742, AF031078, AC006450, AC005913, AC007917, AL049780, AC007384, AC007536, AC005081, AC004999, AC005696, AC002400, AL031284, AC009516, AL022721, AC003664, AC005553, AL049745, AC004887, AP000504, Z98051, AC005180, AP000114, AP000046, AL034423, AL022163, AF129756, AC006111, AL109758, AL049743, AC007064, AC007055, AC007193, AP000555, AC005520, AP000552, AC005666, AL021707, AC005703, AC006449, Z97632, AC005037, AC006026, AC007919, AL021939, AL096791, AC004605, AC005519, AP000558, AC004526, AC006480, AL02323, AC003689, AC004019, AC004972, AB001523, AC005839, AC005902, AP000952, AP000045, AF165926, AC005231, AC000025, AC005899, AC006012, AC004139, AF001549, Z97054, AC020663, AF053356, AC002347, AC004771, AL050331, AC005911, Z98200, AC007051, AL034417, AL008718, Z93241, AC005516, AC007388, AF196779, AC006441, AL021453, AC002395, AC005331, AC007845, AC005291, AP001172, AC005256, AP000553, AL110502, AC005295, AC005663, AC007688, AC003690, AC006130, AC007052, AL003147, AL022326, AC007559, Z98950, AC005632, AL133245, AL031283, Z75741, AC004814, AC005372, AC016026, AL031005, AC003043, U66059, AC005562, AC007216, AL031295, AC007731, Z85986, AC003029, AL031286, AP000115, AL121934, AC005701, AC006251, AC007242, AC005971, AC005500, AC005257, Z74739, AL031577, AC005084, AC005901, AC004970, U95090, AL049636, and AC005065.
HMSCR82	3329	806176	1 - 251	15 - 265
HMSCU35	3330	725513	1 - 676	15 - 690
HMSCY29	3331	703105	1 - 345	15 - 359
AA179771, AA740885, AL042323, and A1017333.				
A1792820, and A1792471.				

HMSCY91	3332	789306	1 - 420	15 - 434	
HMSCZ51	3333	724839	1 - 187	15 - 201	AI052366.
HMSDA03	3334	881563	1 - 508	15 - 522	
HMSDB74	3335	765933	1 - 327	15 - 341	
HMSDD80	3336	503967	1 - 910	15 - 924	N39672, R92235, AI248707, AA682815, AL119721, T91429, T91341, M85784, AA505009, AL045445, W90432, N30473, D79995, AC004495, and AC007151.
HMSDF01	3337	921672	1 - 303	15 - 317	
HMSDG77	3338	708078	1 - 340	15 - 354	AC004841, and AL031255.
HMSDK32	3339	416928	1 - 252	15 - 266	
HMSDM29	3340	703075	1 - 176	15 - 190	Z93784.
HMSDP23	3341	583670	1 - 485	15 - 499	H59931, H67432, AC005154, AC009784, AC003100, AC003034, AL022154, Z70280, AC003072, and AC006998.
HMSDQ33	3342	702772	1 - 368	15 - 382	T41354, AC006123, and AC003107.
HMSDR06	3343	954682	1 - 272	15 - 286	AL020995.
HMSDR55	3344	732443	1 - 335	15 - 349	
HMSDU43	3345	868183	1 - 303	15 - 317	AI243681, AA620742, AA906977, AA610037, and T04923.
HMSDU73	3346	753010	1 - 136	15 - 150	AF053755, and AF047033.
HMSDV49	3347	722194	1 - 343	15 - 357	
HMSEG37	3348	708656	1 - 202	15 - 216	Z41951, and AW295173.
HMSEM59	3349	708076	1 - 63	15 - 77	
HMSEM80	3350	718087	1 - 305	15 - 319	
HMSEO23	3351	676369	1 - 394	15 - 408	
HMSFU01	3352	921628	1 - 365	15 - 379	
HMSFH05	3353	932219	1 - 414	15 - 428	
HMSFH21	3354	671133	1 - 333	15 - 347	AL078463.
HMSFH24	3355	855826	1 - 259	15 - 273	
HMSFH27	3356	682204	1 - 339	15 - 353	AA180174, AA283603, AA304829, AA233827, and AF115509.
HMSFH29	3357	689857	1 - 229	15 - 243	
HMSFH31	3358	583757	1 - 866	15 - 880	AI174683, AI174796, N58549, AI523111, AA585278, AA585439, AA585430, AA585389, AA585378, AI526112, AA585325, AA585329, AA283312, AA585453, AA585116, AI525306, AA585327, T26367, T48593, AW366296, AA585351, AI557238, AI525656, AL122127, Z49918, AL109759, AC003084, AC006975, AL035467, AP000432, AF118808, AC002368, AL049545, AL132994, AC004756, Z98200, AL136363, AL132708, and AL133233.
HMSFH34	3359	706349	1 - 319	15 - 333	
HMSFH39	3360	705586	1 - 344	15 - 358	AA131265.
HMSFH59	3361	739415	1 - 355	15 - 369	

HMSFH73	3362	764554	1 - 187	15 - 201	
HMSFH79	3363	775318	1 - 206	15 - 220	
HMSFH83	3364	780301	1 - 520	15 - 534	
HMSFK32	3365	671136	1 - 227	15 - 241	
HMSFL10	3366	968061	1 - 331	15 - 345	AC008062.
HMSFL41	3367	934139	1 - 485	15 - 499	Z45369, and AC004752.
HMSFL49	3368	683406	1 - 287	15 - 301	
HMSFN48	3369	697991	1 - 473	15 - 487	
HMSFQ48	3370	721795	1 - 596	15 - 610	AW083053, A1457313, A1634187, AW069227, AA365893, AA303054, A1744830, A1753365, H68343, A1301475, A1926233, A1275183, R89081, AA747234, AA018231, AA904211, AC006449, AE000658, AC004854, Z83840, AC007227, AC005874, AF134471, AC005046, AC007666, AC005837, AL022312, AL022328, AC005089, AC005071, AC005377, AB023049, AC006011, AL049779, AC004232, AL024498, AC004593, AC004216, Z84469, U96629, AC006057, Z83822, AC005962, AC004859, AR036572, U91328, AL050307, AC006965, AC004876, AC007388, AL022476, AL121653, AL031594, AC007226, AL078477, AL031311, AC005363, AL031589, AC005777, AC004893, AC003108, Z82215, AL023799, AC006285, AL031056, AC007537, AL034420, AC005921, AC005696, AC002400, AC004821, AL024507, AC005231, AP000692, AC005015, AC003982, AL117354, AL034402, Z74739, AC004000, Z93023, AC003957, AC006328, AC005971, AL035458, AC011311, AC002302, AC005102, AL033527, AC010197, AL049830, AC007637, AL031295, AC005529, AC004858, AC006160, AP000252, AC002527, Z85986, AL031985, AC006039, AC005081, AL096701, AC004099, AC005746, AC008044, AC005726, AC002126, Z95116, AL031427, Z83838, AL049759, AC002542, AC004019, Z85987, AL050318, AC002115, AP000501, AP000359, AP000212, AP000134, AC005037, AC002369, AL009181, Z99943, AL035405, AC000052, AC005383, AB023048, AC000039, Z98051, AC003010, L78833, AC004832, AL034376, AF001552, AC005399, AL009172, AL109952, U85195, AC005722, AL035587, AF111167, AC004491, AC004799, AC005740, AC005412, AC004148, Z84466, AL034429, AL049569, AC005914, AL096774, AL022313, AC007216, AL109798, AC006515, AL078638, Z97630, AC005933, AC005048, AC002549, AC006088, AF038458, AL031662, AL049776, AP001053, AP000088, AF024533, Z83826, AC005215, Z98752, Z83845, AF030453, Z82202, AC004032, AC000105, AL022336, AL031670, AP000553, AC005568, AC005520, Z92542, AC002997, AC004975, AC006480, Z93783, AC007011, AL023575, AL035410, AC004852, AL121769, AP000113, AC004531, AL080243, AC016831, AC006946, L78810, AL031595, AC005067, AL109758, AC005225, AF064861, and AC004106.
HMSFQ69	3371	657538	1 - 445	15 - 459	AW026161.
HMSFR29	3372	693440	1 - 151	15 - 165	AA552587, AC006296, and AC005841.
HMSFR69	3373	738588	1 - 255	15 - 269	AW081383, A1799195, A1680498, A1345677, A1358213, A1866770, A1357599, A1249946,

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HMSFR92	3375	861344	1 - 567	15 - 581	AC006157.
HMSFS59	3376	739420	1 - 422	15 - 436	
HMSFS69	3377	757687	1 - 336	15 - 350	T47867, R76479, T49436, F06560, AA715949, A1927261, A1453160, A1564294, AA668475, AA632765, AW081324, A1471467, AW007424, A1819391, A1823533, A1823535, H40478, AA226770, AA515551, R99418, AA748102, A1356264, AW028834, AA017174, AA019068, A1891075, AW058223, W04439, AA046440, AA854460, W56799, A1289916, AA467774, R67093, AA702717, AA719523, R45580, A1801505, AA749029, AA469441, R35259, AL041895, AL040717, AL049274, AC004466, AC005200, Z82215, AC005880, AL109984, M15366, AL020996, AC004520, AC004967, Z97635, M30688, AL022337, AL022156, AC005190, X54486, AC000402, AC004653, AC002102, AC005353, AC004100, AC008116, AC000003, AC006965, AC005552, AC006305, AC006333, AC002366, AC006979, AC016027, AC016830, AC005256, AC004955, AC002059, AC004491, M13792, AC005483, AC002378, AL031114, AL031281, AC005225, Z84485, AC002472, AL049779, AC007226, AC006141, AC002554, Z68884, Z99754, Z70281, AC004652, AC004678, AC003048, AC004202, AC005360, AC005796, AC000091,

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HMSFT23	3378	855812	1 - 399	15 - 413	
HMSFT52	3379	727302	1 - 489	15 - 503	R07137, AF1761762, AB028943, AP000556, and AP000557.
HMSFT73	3380	761647	1 - 323	15 - 337	
HMSFW13	3381	917020	1 - 309	15 - 323	AL022165.
HMSFX01	3382	917021	1 - 496	15 - 510	H53374, and R99274.
HMSFX08	3383	959784	1 - 290	15 - 304	AA486810, R46108, R37254, R41969, R42367, H12053, AL044613, H16581, AA737346, AA223170, AA342459, H05040, A1923052, A1963688, AA676473, AA665525, AA653300, AA737106, A1279048, AL120481, AA551181, F04207, AA715850, AA485699, F10966, A1191391, H98096, A1243847, H66037, AA345064, AW088581, AA370455, A1754293, AW247392, AA827231, AA651833, H512383, H51061, A1267269, AA991914, AA701080, F04926, AA773740, N74747, AA618080, H71863, AA055784, AL031595, AL117440, AB016194, AL009172, AC007971, AF129756, AC006539, Z98051, AC005531, AL109628, AC005229, AL121655, AC006059, AP000140, AL049589, AP000088, AC006536, AL022476, AC005102, AC006238, AL035695, D87675, AC006530, AC006211, AC007686, AB020864, AC007684, AP000257, AC005520, AC005899, Z69722, AL022238, AC016027, AC000379, AC004859, AC016830, AC002312, AC005730, AF205588, AC002991, AC003963, AC007226, AF111169, AC005488, AF196969, AL022323, AP000098, AL035659, AL035450, AF059675, AC003098, AC007386, AC002425, AC004408, AC002430, AC004381, AC007384, AP000111, AP000043, AC000085, AC007216, AL109656, U82828, AC006011, AF111168, AC005037, Z83838, AC005988, AL049545, AC006449, AC007537, AF126403, Z82976, AL035249, AC005800, AC004996, Z74617, AC006023, AC004000, AC006213, U29895, AL096701, AC002303, U95742, AC004797, AJ011930, AC004024, AC005527, AC007114, AC004590, AL035106, AC005074, AP000459, AC004815, AF165926, AC006487, AL034555, AF001550, AC005846, AL034419, AC000070, AL109865, AP000354, AC009178, AL117258, AC005940, AC002128, AC007024, Z93017, AC006014, AC005399, AC007308, Z94801, AC004991, AL049632, AF134726, AC006478, AC004778, AL080241, AC000159, AL049646, AC007546, AC006120, AC005529, Z83845, Z85986, AC005391, AC007406, Z82194, AC007227, AC005746, L78810, AC002350, AL022237, AL021366, AL049795, AC004787, AF059650, U91318, AL023575, AC000073, AC007199, AC005544, AC005082, AL009031, AC005409, AC000094, AC002326, AL035079, Z94161, AL031295, AC006323, AC004813, and Z94721.

HMSFY49	3384	574906	1 - 386	15 - 400
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HMSFY70	3385	757338	1 - 336	15 - 350	
HMSFZ04	3386	615473	1 - 201	15 - 215	
HMSGGA34	3387	706355	1 - 209	15 - 223	AA623002, H48636, AA774184, AA678499, AA158301, H86860, W85752, AA653964, T53128, AA630925, AA601355, AL046457, AA483223, R84309, W16581, R92288, R84303, AL079935, R84296, R67365, AA602528, W80462, AA584749, AL305766, AA568778, H02477, H86097, AA577906, AL613280, N70442, AW193432, AL002796, AA342914, AA643456, AA858197, AA644538, AA059472, AA678436, AL1469172, AA136122, AA053551, AA810370, AA524838, AA906889, AL284640, AL270343, AA829405, AA824654, AA641989, AA824655, AL110444, M78177, N23653, H11124, H64778, F23279, AA490183, AA626678, T10560, AA533450, AA513972, AL865364, AA365347, AL610159, AA834755, H02877, AW074398, AA167643, AA633094, R83443, AL758582, AA834297, AA664535, F31204, AA280632, AL824562, AA664015, AA357937, AA743956, AA828856, AL133723, AA574110, AL688846, AA437161, AA158328, AW261871, AL270117, F18974, AL049634, F25203, AW193265, AA515128, AA723017, AL350211, AL923140, AL567786, T48649, AL061334, AL246409, AL282907, F36273, AL889781, AL431303, AL608674, AA457639, AL471481, AA581342, AL814735, AA745410, H49061, Z98473, AW276827, AL375710, Z82214, AL078640, AL035495, AL024507, AC004931, AC000396, AC005250, AC006211, Z92844, AC004237, AC007227, AL109985, AL096701, AC006327, AP000115, AC003686, AL078621, AC007541, AC004227, AC004833, AL031848, AC009223, Z81369, AL079295, AL008629, AC004761, AP000556, AP000557, AL034423, AL117258, AC005696, AC005412, AC004685, AC005703, AC008038, AC007751, AF117829, AC004895, AC007528, AL008723, AP000477, AL031650, AL096861, AL035681, AC006960, AL121603, AL008583, AC007731, AC005500, AC009891, AC007437, AC004690, AC007632, AL049550, AP000402, AL096770, AL031178, AC007450, AC006538, AC002531, Z85987, AL035467, AC000066, AC003695, X60152, AC006196, Z97206, AL023803, AC004070, Z84467,

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HMSG41	3388	712490	1 - 530	15 - 544	
HMSGB07	3389	953715	1 - 332	15 - 346	
HMSGC69	3390	757337	1 - 340	15 - 354	AA455432, and AA455959.
HMSGC76	3391	767661	1 - 345	15 - 359	AA983767.
HMSGD02	3392	920525	1 - 430	15 - 444	
HMSGD15	3393	959468	1 - 409	15 - 423	AI889995, AA469230, AI587583, AI587565, AI609992, H62123, AI791659, AI609984, AW410409, AW022796, AA857296, AA468923, AI610012, AI866911, AA935827, AI609974, AI003086, AI821605, AI345566, AA480486, AL041375, AI224583, AI590404, AA135761, AW238341, AI733523, AI453155, AI547110, AW020150, AI521525, AI065031, AA507814, AA676592, AA831714, AW341903, AA425283, AI857834, AI560866, Z99348, AA218684, AA182928, AA720582, AI254267, AA557945, AA804726, AI123488, N94115, AW169038, AI890297, AW338376, AW404543, AA171400, F23338, AA226356, AI095197, AA595661, AL134278, AA679946, AW020094, AW302320, AL042667, AL042670, AA584489, AW149241, AI040051, AA084320, AW008217, AI926102, AL120282, AW021399, AI567676, AA601376, AI679730, AL044339, AL044701, AI800426, AA526542, AA584241, AA526099, AI369076, AA197089, AI282488, AI572680, AA493546, AA554289, AA324559, AW157128, AA324108, AA676462, AI754653, AA551519, AI053518, AW072963, AI826857, AA807704, AI279417, AA618531, Z95114, AL023575, AC004812, AL049569, AC004678, Z82215, AL035422, Z95115, U78027, AL034549, AC007207, AC007685, AL021808, AL031291, AC005154, AF047825, AC002326, AL121603, AC005484, Z84469, AC005255, AL109627, AC006449, AL009031, AL022318, U91323, AC008372, AC008044, AC005399, AC005081, AP000692, AL031311, AC004972, AL022721, AC005841, AC005013, AP000065, AC003108, AP000048,

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HMSGH49	3394	712123	1 - 530	15 - 544
HMSGI42	3395	712994	1 - 340	15 - 354
HMSGK16	3396	861329	1 - 793	15 - 807
HMSGK82	3397	778875	1 - 279	15 - 293
HMSGI27	3398	638097	1 - 1599	15 - 1613
				AA287567, AA252404, AW249468, AA547979, AA601218, AA287570, AA569648, AA255853, AI986165, C18751, AA505108, AA126763, AI732430, AI732458, AA127499, AA984187, AA814400, AI917132, AA714224, AA758277, AA085372, AI380617, AI669421, AA714110, AI040051, AL041894, AA610432, AI912401, AW021917, H80203, AI623764, AI923052, AI821044, AI354423, AA515728, AI679413, AA604645, AA528390, AW270258, AA582554, AL079734, N32944, AA652868, AI206841, AI783911, AA569667, AA745653, AI962030, AA410788, AI733856, AI244127, AL040054, AW271917, AA579179, AI499954,

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HMSGP45	3399	699243	1 - 428	15 - 442	

HMSGP49	3400	723131	1 - 376	15 - 390	
HMSGP73	3401	925385	1 - 961	15 - 975	A1740741, A1435434, A1475908, AA626659, A1802875, AA262760, A1524192, AA279545, AA262840, W45255, AL138162, and AC004490.
HMSGQ30	3402	692880	1 - 393	15 - 407	AC007390.
HMSGQ57	3403	733869	1 - 406	15 - 420	A1468586.
HMSGR88	3404	575241	1 - 214	15 - 228	AA070885, A1884861, A1473995, A1073373, A1903464, AA357979, A1078184, T39390, A1903448, AA578626, AA525407, A1207476, AA584208, AA313133, A1143653, C14576, A1869786, A1289396, A1921491, A1713705, AA513189, C15336, AA078137, AA525517, AA173166, AW081857, N34258, AA347653, R48980, AA584484, A1570380, AA247731, AA304790, AA961966, AW238639, C15180, AA628740, A1049630, AA373861, AA322542, AA078509, AA295893, AA533660, AA295899, AA633799, AL036665, AA633981, AA565232, AA633875, AA666066, F03907, AA601653, AA736713, AA513916, AW327555, AA492524, A1889426, AA493628, A1045423, C15362, AA402113, T49133, A1468993, AA229030, Z36248, T39420, AA084950, AA468923, AL036070, AW438993, A1866971, AL134664, H92398, T06876, AA714190, AA314338, A1431513, AA133013, W52705, A1733856, AA985145, W59977, AA744095, H92613, AA713735, F35684, A1863246, T08386, AA363003, A1338575, F10822, AA308598, F30497, A1624038, AA569206, T07225, AA757758, A1065043, AA302557, AW12881, A1188049, A1590404, AA115655, T03928, AA206366, AA181917, T72631, A1223968, R49266, A1654658, W44359, T64928, H74324, A1679221, A1281401, A1479806, T30418, AW105463, AA683091, AA350406, AW337805, A1855906, H69517, AA728911, A1612810, AC008125, AC004887, D87012, AC011331, AC005551, AL035659, AC002091, AC005015, AL031651, AC003962, AC002326, AL023575, AC006963, AC002364, AC004687, Z98036, AC004703, AC005865, AC004859, AL049569, AC004131, AC005280, Z99716, AF048727, AL133289, AC004383, AC007308, AL049548, AC004891, AC006043, AL021393, AC005081, AL133448, AC004832, AC006000, AC012099, AL035249, AP000303, AL035072, AP000049, AP000116, AP000114, AP000046, AP000311, AL009031, AC003682, U62317, AC007011, AC007421, AL031663, AC005005, AC007993, AC006160, AC004778, AL031664, AC004844, AC005089, AC002563, Z81365, AC002303, AC005231, AL117694, AC005086, D86995, AC003098, AC004100, AL050348, AC002039, AC007237, AL035667, AP000555, AC005726, AC007546, AC004216, U62293, U63721, AC005057, AC003973, AC005874, AF134471, AL132826, AL008634, Z82244, AL049869, AC006312, AC006275, AC004675, AL049576, AC006578, AC003681, AC007899, AL133312, AC006336, AC007292, A1011931, AL020993, AL031781, AL050307, AL031290, AL035417, A1243213, AC005043, AC008015, AL133238, AF107885, AF205588, AC004150, AF088219, Z93241, AC007367, AC005942, Z49235, AC003007, AL109914, AC005632, AE000662, AL049745, AC007193, AP000350, AC004983, AF024533, AC006146, AC010200, AB011126, AC003119, AC000379, AC004836, AC006251, AL031056, AC002312, AL049776, AC004882, AC004975, M94081,

HMSGT45	3405	722069	1 - 363	15 - 377	AC005736, AP000065, AL031659, AL049935, AC006030, AL008734, AC004776, AL049694, AL031676, AC004701, AC006039, AC004988, AC005037, U91322, AB020866, AC006270, AC008039, AC004789, AC002991, AC005786, AC005808, AL109798, AC002407, AC006365, AC002546, AC002530, AL034423, Z84466, AC002418, AP000469, AC004552, AC006360, AL022727, AF121898, AL009181, AC006026, AC004765, AC004386, AC004491, AC005529, AC007030, AC008038, AC005261, AC005932, AP000343, AC004156, U15177, AC006077, AL049843, AC005521, U95742, AC004448, Z97987, AP000696, AP000356, AC003082, AC007216, AP000355, AB013005, AF041001, Z95703, AC000353, U73645, AC008989, AC004622, AC004587, AP000045, AP000113, Z85987, AC007880, AC005048, AC003003, Z85986, U91318, AL021937, AF001550, AF196779, AL079306, AC004106, AF172277, AP000008, U95743, Z83826, AC005036, AL109748, AC005376, AC004938, AC006024, AC006959, AC002401, U91325, AF121782, AC005011, AL031053, AC005815, and AC006313.
HMSGU52	3406	727300	1 - 313	15 - 327	R00440, H65822, AI032598, and AI655884.
HMSGU76	3407	677512	1 - 283	15 - 297	AC004634.
HMSGU89	3408	963497	1 - 467	15 - 481	AI791905, W31955, A1739525, AA459612, AA486469, AA410963, AW291807, and AW137789.
HMSGV47	3409	920116	1 - 409	15 - 423	AA568624, and AC002477.
HMSGW16	3410	767621	1 - 343	15 - 357	
HMSGX02	3411	920511	1 - 347	15 - 361	AC005946.
HMSGX12	3412	792437	1 - 268	15 - 282	
HMSGX14	3413	871492	1 - 452	15 - 466	AW386461, AW386289, AW386672, AW386599, AW386619, and TS2919.
HMSGX43	3414	715425	1 - 290	15 - 304	
HMSHA04	3415	757509	1 - 236	15 - 250	
HMSHA37	3416	708660	1 - 347	15 - 361	
HMSHB10	3417	964651	1 - 364	15 - 378	
HMSHB14	3418	657543	1 - 351	15 - 365	
HMSHC94	3419	960196	1 - 379	15 - 393	AC006566.
HMSHD50	3420	724397	1 - 387	15 - 401	
HMSHE51	3421	725692	1 - 364	15 - 378	
HMSHE55	3422	923378	1 - 433	15 - 447	
HMSHG24	3423	676545	1 - 348	15 - 362	
HMSHI54	3424	920119	1 - 392	15 - 406	AL042448, and AF001549.
HMSHI94	3425	967167	1 - 579	15 - 593	AA521310, W22173, and AF093097.
HMSHK14	3426	920106	1 - 362	15 - 376	
HMSHL09	3427	789229	1 - 231	15 - 245	AA954108.
HMSHL18	3428	690655	1 - 340	15 - 354	AA504649, AI243516, AA936359, AA749365, AA748744, AI687298, AI219611, and AL110200.

HMSHL85	3429	773811	1 - 348	15 - 362	AL117354.
HMSHM28	3430	855792	1 - 523	15 - 537	AA476784.
HMSHO64	3431	746582	1 - 398	15 - 412	
HMSHP08	3432	868170	1 - 364	15 - 378	
HMSHQ07	3433	953389	1 - 569	15 - 583	
HMSHR29	3434	974813	1 - 811	15 - 825	R25085, AA281484, AA099305, AA351609, W96314, and AL137561.
HMSHR64	3435	746587	1 - 406	15 - 420	
HMSHT10	3436	964647	1 - 376	15 - 390	AI358229, AA587604, AA908687, AW079135, AW406755, AI457397, AI365988, AA613203, AL119691, AI334443, AW069481, AW419262, AI745325, AI281881, AI053672, AA652764, AI654525, AA482768, AI124759, AW338086, AI270559, AA669840, AA446657, AA610491, C05986, AI284640, AI754253, AW193265, F36273, AI133164, AA581903, AL046457, AW088058, AA551552, AL046205, AA346458, AA613232, AI799642, AI305547, AI821714, AI792133, AI791913, AL038705, AW270270, AA280632, AA503600, AW029038, AA493708, AW079792, AW439558, W79504, AW301809, AA828749, AI431240, AW407578, AA738034, AL120687, AI249997, AA720702, AA580808, AA502866, AI564185, AA613227, AW273218, AA973803, AA113861, AI866908, AI821785, AA309257, AW167372, AL119984, AA164251, H96730, AI245679, AA665021, AI684097, AW089322, AA747777, AW166815, AI471481, AI623696, AL138455, AI623898, AI076616, AL038474, AW341900, R91145, AA631507, AA767971, AW406162, AA569471, AI921296, AI434695, F25135, AA244286, AI299694, AA643962, AA722372, AA521323, F28204, AA713815, AI148277, AI951863, H77643, AA533725, AW021207, AI370878, AW149339, AL022328, AL096701, AC004033, AC005480, AC007731, AC005500, AC004637, Z98051, AC003007, AC006251, AL049569, AC005261, AC005632, AL021808, AC007666, AL049759, L47234, AC005900, AC006275, AC004019, AC004686, AC000052, AC005837, AL049776, Z86061, AC004967, AL020993, AP000114, AP000046, AL049643, AC007510, AC005527, AC004827, AC007207, AI049709, AC004987, AC006205, U85195, U80017, AC005089, AC007685, AE000658, AC007226, AC004638, AC006511, Z82097, AC002091, AC006017, AC006271, AC005231, AC004982, AC004491, AC005971, AC006449, AC002350, AL080243, AC004815, AC016025, AC004148, AC005696, AP000359, AC004848, AC001228, AC006040, AL109939, AL135744, AC000045, AL023913, AC008012, Z97054, AF196779, AC003029, AL022163, AC007390, AC002429, AP000115, AL022302, AC007114, AC005868, AC006312, AC005180, AP000402, AL031777, AC006482, Z83823, AC005529, AC006285, AC009721, AC006014, AC005901, X74558, AC006001, AC004812, AC004626, AC004832, Z69666, AC004765, AC006571, AC005747, AC007227, AC002448, AL008718, AC005841, AC006480, AP000141, AC000025, AL035072, AC005288, AC004997, AC005300, AC002347, AL132774, AC007298, AC005488, AC007151, AL034430, AC004755, AC006063, AC006208, U82668, D87675, AC003048, AC004975, AC005486, AC000353, AP000132, AP000210, AC006006, AC008101, AC002544, AB020859, AP000030,

HMSHT46	3437	959516	1 - 242	15 - 256	Z69705, U91326, AC008372, AL033392, AC005230, AC000094, AC005722, AC005585, AL023575, AC005324, AP001068, Z82244, AC007537, AL031687, AC003043, AC016027, AC016831, AL031283, AL121591, AC007308, AC007845, AL021937, AC004099, AC005775, AC005004, U95742, AC008079, AC004963, AC003688, AC016830, AC004931, AC004754, Z99716, AC007766, AC005598, AL132994, AC007324, AC004779, AC006130, AC005406, AC007216, AL117258, AP000509, AF165926, AL021453, AC004069, U78027, AP000065, Z85987, AL110502, AL034417, AL139054, AC004659, AC003030, AL031277, AC006958, AL049699, AL031588, AL022721, AC004966, AC005911, AF001549, AC008018, AC005387, AC006213, AC000085, AP000553, AL008716, AC005678, AC005154, AL031602, Z99754, AP000088, AL031584, AC004986, AL121603, AL021707, AL021393, AC007535, AL021977, Z83840, AC005844, AC006071, AC005209, AL022322, AF190465, AL117328, AF045555, AL034451, Z75744, AC005808, AL008723, AC007051, L44140, AC002316, AC006111, AC007387, AL031311, AC007919, AC003664, AC005839, AL133355, AL121825, AC002476, AC005541, AC005670, AC004890, AC007686, Z84572, AC006116, D87009, AL031666, AP000249, AC005562, AC002045, and X60459.
HMSHT46	3437	959516	1 - 242	15 - 256	
HMSHU10	3438	964646	1 - 401	15 - 415	
HMSHU55	3439	731775	1 - 507	15 - 521	
HMSHV09	3440	731740	1 - 343	15 - 357	
HMSHV44	3441	716596	1 - 531	15 - 545	
HMSHW22	3442	855779	1 - 380	15 - 394	
HMSHW84	3443	783036	1 - 274	15 - 288	
HMSHW93	3444	792302	1 - 299	15 - 313	
HMSHY07	3445	953331	1 - 494	15 - 508	
HMSHZ03	3446	924136	1 - 523	15 - 537	
HMSHZ56	3447	733386	1 - 302	15 - 316	
HMSIA12	3448	948521	1 - 714	15 - 728	
HMSIB73	3449	578777	1 - 433	15 - 447	
HMSIB86	3450	785493	1 - 576	15 - 590	
HMSIC37	3451	685586	1 - 408	15 - 422	
HMSIC72	3452	740365	1 - 359	15 - 373	
HMSID81	3453	774047	1 - 489	15 - 503	
HMSIE11	3454	967013	1 - 124	15 - 138	
HMSIE52	3455	727146	1 - 353	15 - 367	
					AA780867, AA746360, AI367306, AC004540, AL080243, AL031577, AC005086, AC005546, AC007227, AF001548, AL031255, AF024533, AL035455, and AC016473.
					H67330.
					AC006241.
					R25210.
					AA936787, and AC003962.
					M62052, and AC007263.
					AA312074.
					AA525024, AA525066, AA595766, AA524685, AI914785, N71720, AI401643, AA502477, N57913, R59126, AI471755, AI282710, AC003080, Z83847, AC005500, AC002352, AC000353,

					AC004383, AC004216, AL035461, AF053356, AC006430, AC004617, AC005071, AC006241, AC004382, M89651, AL035086, AC004638, AC007664, Z84466, Z93341, AC002992, AC002551, AC005484, AC002549, AC004055, AF109907, AC007226, AC004858, AC006213, S62834, M97764, AC004968, AC002472, AC005280, AC008040, AC005005, AP001053, AC007685, AC004910, AC004033, AC003957, AC004242, AL034379, AP000240, AC005736, AC005095, AP001052, AJ011930, AL122020, AC007193, AL049631, AL049712, AC007773, AL022336, AL022162, and AC004526.
HMSIG74	3456	725842	1 - 420	15 - 434	R96445, and H70887.
HMSI181	3457	385937	1 - 311	15 - 325	
HMSI185	3458	916552	1 - 278	15 - 292	AA487995, AI469687, AA487884, F18394, AA776236, AW383129, AI245679, AI364570, AI801591, AW118517, M77950, AI471374, AI355281, T56067, AA364193, AA654998, AI880002, AW157599, AA662017, AA359366, AA365248, AA102412, AI561335, AA584588, AA648064, AA652348, AA299151, AA593533, C15073, AA620525, AA480762, AA862213, AW383634, AI1148245, AI910609, AI597832, AI431232, AI832782, AI040313, AL119649, AW302013, AW383608, AW383628, AA533450, AW383440, AW383542, AW383586, AW276172, AI952786, AI986251, AW383596, AW383605, AW383624, AW383606, AA653221, AA653975, AI367471, AI367401, AI355224, AI367420, H15679, AI049940, AL047602, AW272925, AI805380, AI418327, AI702095, AI186470, AI720431, AI684208, AI753567, AA632407, AI677668, N41759, AW082063, AA704147, AA533038, AW025031, T29360, H61393, AL048266, AI354587, AI538928, AI613473, AI635314, AA088841, AL135674, AA704123, AI341664, AI806850, AI198376, AA514737, AA094651, AA302970, AI682998, AI744188, AA053551, T58118, AW190947, AI915068, AA283761, F35659, AA404499, AI357477, AA364224, AA299601, AA228830, N25303, AA323547, AI613459, T67425, T05319, AA937687, AA813902, AW021285, AL119295, N70648, AI493546, AA635331, AA437161, AA535661, AI619997, AI521901, AI306524, AI925040, R80865, AI624698, R94354, W45336, R42293, AW193512, AA838333, AI249997, AI305547, AA702023, AA613893, AI744170, AA091452, AI174535, AA164960, AI572564, AI699060, H64560, AA179090, AI493634, AA829106, AA284184, AI783494, AA669522, AI270343, AW172727, AI439360, AI829331, AI802526, AI679713, W47444, AI587565, AA553385, AI287964, AI587583, AW151884, H97666, AI561255, AW383560, AW338086, AA332215, AW383455, AW383629, AA648110, AI128353, AI341548, AA179136, AI366071, AA079528, AL041382, AW338292, AI915293, AA629597, AA765979, AI110760, AI559114, W04195, AW103415, AA192695, AA481363, AL037574, H98660, AI582890, AW084253, AA481375, AW241511, AA362700, AW241456, AA584749, AA826144, AI805563, Z98473, AI281474, AA532955, AA342958, AA443065, AI270117, AW327282, AI345675, AA507246, AI345681, AI038833, AA491814, R26134, H60735, AI801205, AA013176, AL041706, AI633390, AL034402, AC005215, AC002301, U24498, AC002457, AF064866, U95090, AL020995, AL021938, AC000067, AC005661, AC004929, AL031722.

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HMSIN64	3459	963441	1 - 559	15 - 573	
HMSIN75	3460	728670	1 - 299	15 - 313	AA400632, AA368986, AA400317, AA811357, A1815926, AA353038, A1815728, A1886832, A1554783, AA740345, AA676886, A1833007, A1090223, A1148002, AW081785, A1436367, AA513753, A1797479, A1191303, F26406, A1188727, AA536076, A1432454, R07547, A1336523, and A1970899.
HMSIO61	3461	741811	1 - 398	15 - 412	
HMSIO76	3462	767680	1 - 396	15 - 410	AC005950, and AC001228.
HMSIP13	3463	792379	1 - 602	15 - 616	

HMSIP59	3464	739275	1 - 477	15 - 491	
HMSIS02	3465	920078	1 - 438	15 - 452	
HMSIT63	3466	745068	1 - 360	15 - 374	AP000150, D83253, and AP000009.
HMSIT73	3467	708077	1 - 309	15 - 323	
HMSIU50	3468	706363	1 - 349	15 - 363	AC007537, and AL109865.
HMSIV17	3469	712318	1 - 505	15 - 519	
HMSJA36	3470	685633	1 - 242	15 - 256	AL121652.
HMSJA69	3471	745227	1 - 323	15 - 337	
HMSJB02	3472	920065	1 - 552	15 - 566	
HMSJB64	3473	969637	1 - 356	15 - 370	AL043325, and D29677.
HMSJB83	3474	781172	1 - 303	15 - 317	F06560.
HMSJB93	3475	676414	1 - 411	15 - 425	
HMSJB47	3476	928252	1 - 527	15 - 541	
HMSJE52	3477	868167	1 - 455	15 - 469	
HMSJE69	3478	513164	1 - 598	15 - 612	
HMSJH79	3479	760667	1 - 420	15 - 434	
HMSJ122	3480	674557	1 - 584	15 - 598	AC004262.
HMSJ124	3481	928152	1 - 651	15 - 665	AI144557, AA777781, AI418005, AW139587, AW206289, AI627853, AI493150, AA827263, AW301021, AA196170, AI367643, R84740, AW139788, AI539840, AA992466, AL135079, AA342835, AA018860, AW341838, AA889455, AI086195, AI032948, AA136660, W95055, AW277153, AI123630, AC006987, AL031846, AC007276, and AL035461.
HMSJ183	3482	781094	1 - 312	15 - 326	N71930, AA557879, AW193546, AL137954, AL120502, AA368936, AA578961, AA441788, AW072923, AI432270, AW406659, AI379719, AI499094, AI143242, AW069807, AI499503, AA837783, AA342901, T07324, AI307201, AA594215, AI160117, AA483034, AI635818, AA484148, AL119298, F28576, F36373, AA626637, AA528679, AI569086, AW265197, AA601270, AA309460, AA652057, AA649642, AI003734, AL041706, AA658846, AI079910, AA641103, AA493508, AI707788, AW193500, AW302117, AI890928, AI709066, AA095511, AI890570, AW088058, AI334435, AW340844, AL079645, AA694169, AW438916, AW057877, AI264743, AA578154, AL042856, AI312149, AA715270, AI357551, AA448858, AI051551, AI471374, AA484262, AA125788, AL079843, AI445436, AW408161, AA355281, AW406447, AA847741, R72392, AI281903, AI754291, AA548137, AA715268, AW276435, AW276932, AI557323, AI561335, AW264969, AI609223, AW173651, AA632648, AW072587, AI744739, AI469172, AI435544, AA341228, AW238016, AI963786, R13151, T92445, AA360694, AI345518, TG3104, AI114660, AA657533, H70615, AI801591, AA608710, F33511, AA338522, AI674873, AI914706, AA448838, AI312309, AI654588, H55894, AA862225, AW188679, AA443695, T08638, AA584581, AA357987, AL110418, AA599495, AI473701, AI279759, AW249835,

					AI859251, AI669453, AI921188, AI627581, AI053790, AA603445, AA744297, AI252085, AW168342, AI865364, AI252114, FI9156, AW022379, AI792903, AI704643, AI792864, AI733957, AI734002, AA745330, F32808, AI709365, AI612152, AI922002, AA679009, AA664407, AI927741, AI963095, N77729, R52326, AC002422, Z84487, AL031650, AC004963, AL121578, AC004020, AL122126, AC004079, AL031286, AC005026, AC003682, AC005191, AC007106, D84394, AL031285, AL109847, AP000355, AC007563, AL021397, AC009241, AL031584, AC002990, AC004706, U69730, AC006367, Z98755, AL031387, AJ006995, AL032821, AL035608, AP000567, AL022394, AC004047, AL133241, Z83840, AP000493, AE000660, AP000506, AC006046, AL049636, AL023279, AC005342, AC006924, AC008282, AL049775, AB000882, AL022098, AC004180, AC006197, AL022329, AC004025, AC003029, AC004385, AC005476, AC007486, AL080238, Z83841, AC000062, AL050343, AC007684, AL133249, Z94277, AP000507, AC007214, AL121823, Y10196, AL031255, AC003013, AC004865, AC010196, AC004383, AC010209, AC006271, AJ006997, AC005186, AB015752, AL031388, AC010072, AC006525, AB020867, Z83822, Z84470, AC007402, AC004038, AL031686, AL009172, AP001137, AJ006996, AC003049, AC004067, AC006143, AL109852, AL023876, AC007637, AF109076, AC009399, AL008723, AL121882, AC005722, AL049781, AC003010, AC004053, AC006120, Z82194, AC007245, AC002367, AL031446, AC010349, AL034350, AC006287, AC008123, AC004629, Z84469, AC004921, Z99128, AC003960, AC004478, AC002466, AC006062, AC002412, AC008012, AF107885, AC006115, AC004087, AC002457, AL122023, AP000240, AC011604, AL109801, AL023807, AC004593, AC004074, AL133163, AC005969, AC000004, AL049834, AL021392, AC004014, AC005832, Z83820, AC006441, AL121871, AC006079, AL133289, AC002524, AL031653, AC007666, AC004470, AC006966, AC002060, AL049589, AL022158, Z97876, AC002463, AC006582, AL021528, Z75741, AC007687, AE000659, AC004231, AL137100, AC007320, AL022720, AL096817, AC004835, AB020868, AL049874, AC004081, AC002287, AL035696, Z95329, AL109654, AC007786, AP000475, AC005229, AC006210, AC000086, AC002476, AL109753, AL008710, AL117338, AC007159, AC012099, AL109754, AC011422, and Z70225.
HMSJL41	3483	922753	1 - 504	15 - 518	AL022721.
HMSJM33	3484	702408	1 - 411	15 - 425	AC005233.
HMSJO36	3485	708084	1 - 397	15 - 411	AA502207, AI078409, AA635150, AI003391, AA182569, T16427, AA112646, AA551062, AI307563, AA458452, AA228442, F02399, AL135490, AA661590, AA021354, AI446478, AI302350, AA720732, AA722505, AA582554, AW407679, AI190648, AI270476, AI798493, AI302994, AA413406, AA021388, AI040051, AW081303, T03928, AI354243, AI453321, AI538075, AA631915, AA054170, AI610468, AA483103, AI862716, AI583466, AC004893, AL031597, AC004685, AC002544, AL035420, AC005839, AP000501, AL132777, AC006208, AC004000, AC005049, AC002476, AF165926, AL022476, AL133246, AC000353, AC006211, AC007096, AL035685, AL031774, AC005531, AC005081, AP000103, AC005726, AC007637,

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HMSJO44	3486	716600	1 - 378	15 - 392	AA740736, W61253, AA780648, AA167179, AL150934, T03928, AA743718, AA598889, AA865640, AI082150, AC007421, AC002091, Z82206, AP000691, AC006047, AC005484, AC004185, AL031680, Z69638, AP000692, AL033527, AC006538, AC016025, AL122020, AC007684, Z85986, AC002481, AC006511, AF217403, AL133249, AL022323, AL031311, AP000509, AC004668, AF196969, AC006960, AL109963, Z85994, AL049641, AL031846, AL021528, AC005342, AF207550, AC004953, AL031602, Z98941, AC005829, AC005332, AF111168, D84394, AP000228, AL031597, AP001056, AC005694, AL035455, and AC004017.
HMSJR07	3487	854106	1 - 495	15 - 509	AA565398, AA382192, T73974, N87333, AW132065, AA557727, AA639939, AI049924, AI281622, AI887397, R57089, H59974, AA654293, AI911936, AI923263, H97930, AA070614, AA370883, AA618451, AA468247, N27874, AI601229, AI754653, AA468318, AA669747, AA584765, R77715, AW271071, H80215, AI419419, AI423034, AA721581, AA165079, H47641, F07225, T47096, AC005838, AL049646, AC002128, AL117354, AL049795, AL049712, AF118808, AF001905, AL137191, AC005994, AL049844, AL109865, AL022400, AF111168,

HMSJR27	3488	855760	1 - 576	15 - 590	AC006313, AL035458, AC005730, AL035443, and AL034344.
HMSJR41	3489	967070	1 - 416	15 - 430	AA002166, AA256383, AA699351, AA176339, and AJ249977.
HMSJR74	3490	710402	1 - 427	15 - 441	
HMSJT11	3491	965007	1 - 1744	15 - 1758	AI962693, AA135585, AL137976, AI417140, AA745126, AI352492, AA436379, AI379403, AW006280, AA135524, AA234271, N22187, AA491640, AA256692, N71230, H23394, F12594, and AB011127.
HMSJT60	3492	733379	1 - 258	15 - 272	AA218874, AW069273, N57205, AA975894, AA831375, H81732, AA730795, T98915, T62975, AA370455, AA330772, AA828696, R79496, R93081, AA348602, AI472686, AA968509, H97358, AA676621, AA317096, H12383, AC005099, AC004448, AC007327, AC005921, AC000063, AL033523, AC005736, AC002395, AP000556, AP000557, X77744, AP000553, D87011, AC007240, AC004961, AC004821, AC007666, AC007227, AC000052, AC004019, AC007226, AL135744, Z81308, AL049766, Z82194, AL035415, AC010170, AP001053, AP000252, AL023755, AP000134, AP000212, AL080276, AP000031, AC008372, Z86090, AC005914, AP000281, AC007999, AP000039, AP000107, AL049576, AC004706, AC007055, AC007151, and AL117337.
HMSJT70	3493	756465	1 - 385	15 - 399	
HMSJT79	3494	954141	1 - 433	15 - 447	
HMSJU28	3495	686664	1 - 400	15 - 414	
HMSJV67	3496	751602	1 - 401	15 - 415	
HMSJW12	3497	902568	1 - 3126	15 - 3140	AA585278, AA283312, AA585378, AA585389, AI526112, AA585116, AA585325, AA585329, AA585430, AA585439, T48593, AA585356, AA585327, AA585098, AA585453, AI525306, T26367, AW366296, AA585351, AA585101, AI541402, AI546855, AI541515, AI541515, AF135243, A85395, A85476, AB005666, AR031358, AR017826, AR031365, AJ131952, AR037157, X82786, X55499, AR008429, AR062871, A25909, AJ007320, A70872, X93517, A44281, A94995, A70899, AR029417, A70869, AR060142, AR060137, A30438, Z79475, I50122, AR038669, A91667, M60510, A91666, AR060134, A84772, A84776, A84773, A84774, A83076, AF134119, Z79435, U79666, A91750, X84816, AR028672, AB005559, U89315, AR060057, AJ009991, AJ012010, Z31700, and A44216.
HMSJW19	3498	744990	1 - 691	15 - 705	AL043195.
HMSJW25	3499	678096	1 - 534	15 - 548	AL122020.
HMSJZ11	3500	861381	1 - 587	15 - 601	
HMSKB02	3501	920056	1 - 488	15 - 502	
HMSKB24	3502	855883	1 - 196	15 - 210	
HMSKC56	3503	733388	1 - 397	15 - 411	AW058639, AI339743, AA465532, AI698594, and AL133112.
HMSKC66	3504	783028	1 - 371	15 - 385	

HMSKC90	3505	675055	1 - 373	15 - 387	
HMSKF32	3506	699273	1 - 383	15 - 397	
HMSKF62	3507	966084	1 - 587	15 - 601	AC004751.
HMSKG23	3508	675885	1 - 381	15 - 395	AC008545.
HMSKI08	3509	959413	1 - 509	15 - 523	
HMSKQ60	3510	495734	1 - 513	15 - 527	<p> AI203185, AW239380, AF094516, and AL122075. AW085811, AI188327, AI065031, AW069769, AA661583, H64858, H64884, AI962030, AW021399, AW023975, AW151848, AI609972, H59797, F35374, AI355246, AL042667, AL042670, AW023111, AI701898, AW237905, AW327673, AI250333, AW328331, AI733856, AI801479, AI890283, AI754257, AI439525, AI040051, AW069227, AI580472, T57096, AW243817, AA199578, AI174827, AW275432, AL121039, AI031759, AI702049, AW265468, AW328185, AI927275, AI744199, AW021917, AI733523, AA601336, AI571094, AI921744, AI567676, AI884404, AI251024, AW268793, AW021674, H38769, AA610381, AL044966, AI754653, AI017251, AI744890, AA493546, AW162314, W04260, AA809546, AW020612, AI925812, AI003469, AA644090, AI254267, AW085626, F23338, AI859438, AA515728, AA507623, AI803824, AI061313, AA525753, AA503307, AW162332, AA640305, AI249365, AA526542, AL038936, AA812133, AI572680, AA421536, AW028376, AW148821, AI889177, AI267416, AA828834, AI312614, AW057760, AW410844, AI053696, AI221027, AI003068, AA526659, AA720732, AI000314, AI049955, AI133083, AA533660, AA526658, H86399, F29968, AW270385, N23504, AI547110, AA470933, AL036949, AA112864, AA947352, AI821901, AW020094, AW189853, AW268277, AI311796, AW301771, AI446618, AA653139, AI039257, AI246796, AW407007, H94598, AI872229, H62123, AI862716, AA593168, AI185160, M77964, AA636077, R79396, AI918661, AA807704, H47461, AI434103, AI679759, AL038533, N70293, AA600127, AI457313, AI064968, AI202777, AW190437, AI634187, AW131109, AI805556, AI361401, AA761454, AA428991, AA496042, AI363336, AI805373, AI343808, N35135, AW081610, AI732151, AA419107, AI653999, AA419014, AI798521, AI148840, AI566408, AI653776, AA502991, AI152398, AW419201, H68343, AA568303, AW082104, AA604149, AA600202, T90477, AA595661, AA515727, R93919, AA364147, AA598545, AI801505, W27084, AA551062, AC006071, AC006006, AC005914, AC005695, AC005015, AP000116, AC006449, Z84474, AL022320, AC004876, AC004760, AC005826, AC005755, AL121603, AC005993, AC007666, AI031680, AP000048, AC005694, AC004263, AL009181, AC004671, AC004765, AP000558, Z97055, AP000309, AC007314, AL049591, AC006379, AC005064, AL035684, AC002351, AL022313, AC009247, Z83844, AC005037, AL133448, AC005527, AC004796, AL022336, AC005529, AL096712, AC005519, AC006344, Z83840, AC002418, AC005484, AL031255, AL031587, AL022721, AC009516, Z80232, AL034553, AP000280, AC007686, AP001068, AC005300, AC006539, AC004386, AP000252, AP000107, AL117391, AC004019, AL034379, Z95116, Z97181, AC007917, AC005902, AL035445, AC008498, AC005288, AC007285, AF031077, Z81450, AC005736, AL109847, AC007051, </p>

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HMSKS66	3511	413201	1 - 426	15 - 440
HMSKU36	3512	966289	1 - 374	15 - 388
HMSKU90	3513	920151	1 - 734	15 - 748
HMSKZ29	3514	690662	1 - 341	15 - 355
				AA745302, AI567391, AI160786, AA058312, AA553570, AI929298, AI929825, AI927261, AW157180, H71659, T06518, AA229422, AA523695, AA420729, AA425924, AA654874, AA445908, AI871913, AA378207, AI246061, AA634926, AA586433, W81372, AA378489, AI298079, H29914, AL037927, H73550, AI300818, AI310992, AI192440, AI380617, F26713, AA862075, AI811647, F33037, AA584207, AA077637, N58301, AA581247, AA630122, W21218, AA025872, AI342677, AA569053, AA728880, AA368329, AL044384, AW023111, AW019964, AW162128, AI915081, AA744410, AW419389, AA599423, F33126, AA721523, AA721530, AA363003, AA328387, T99179, AW275432, AA663373, T83057, AA282951, AL121287, AI054090, AA078128, AA568314, AA554257, AA079076, AI078409, N44146, AA714073, TS4783, AI671077, R93919, N27615, AA904211, H81406, F30158, AA937809, AI866580, AA584493, T69879, AA579188, F23294, AI272649, AI27570, N36143, N86362, AI686470, R87135, AW245860, CI6358, AA205436, AL134527, AI284543, AA214042, AW238575,

AA584183, A1358542, A1254770, A1302156, R70883, AA541532, AA668905, A1251944, A1284126, AA306530, A1251034, A1251203, AA315361, A1251284, AA837771, A1369580, AA487226, A1250552, AA583546, AA937618, A1434037, A1434144, AA516214, T87883, F34939, AA452887, AA642809, AW069537, F35684, AW236277, A14322484, AA223512, T08386, AA613761, A1871691, T62543, T26476, A1439393, H67064, F05830, T62078, R81176, A1355246, H14566, AA314338, A1633386, AA640310, AA633197, A1798407, AA515728, AW161459, A1198718, T47138, AA664298, R64640, A1860535, AA346870, AA219349, AA130609, A1364568, AW029269, N92813, AW151541, A1445774, AA082509, AW157731, N34689, AA610848, AA256107, N73021, AA137025, AW161879, F24745, AA460692, AW029618, AA357850, A1191343, AA657897, AA460994, A1003797, A1433503, AA936548, AA488646, H24953, AA501461, H90845, AA669054, A1418661, AA878344, AA657910, AA467774, A118510, AC002045, AL080243, AC005666, AL096678, AC003666, AC004913, AF277550, AC006001, AC004787, AL031595, AB020872, AF017104, AC016831, AC002395, A1022717, AB026898, AC005537, AC004835, AC005015, AC004616, AL049835, AC005020, AC004805, AL049569, AC004887, AL133396, AC005037, AC009399, AL096776, AL033517, AC002112, AL135960, AJ131016, AC005914, AL133304, AC005145, AL121754, AC006285, AC016025, AC005756, AC004837, AL024509, AL117694, AC004843, AL022726, AL022724, U91326, AF088219, AC005578, AC004828, AB017653, AL132777, AL096701, AJ006995, AC004883, Z84469, AL049781, AL009179, AL022165, AF001905, AC005409, AC006461, AC002303, Z54072, AC006547, AC002073, AC005664, AL049776, AC005146, AF188024, AL021326, AP000065, AL031983, AC007681, AP000498, AC004656, Z82195, AL139054, AL031984, AC004836, AC008975, AC007637, AC002390, AL133243, AC007919, AL0222394, AL133500, AC006930, AC005690, AC006430, AC004972, AL031846, AC007344, AL031230, AC005412, AL034420, AL035687, U96409, AL133245, AC005618, AL021393, Z86090, Z84488, AL008707, AC003685, AC004686, AC005971, AL035415, AC008372, AC005071, AC002385, AC009516, AC004955, AC004804, AC006137, AC005013, AC003041, U85198, L47234, AP000270, AC007993, AL109983, AC002351, AC007012, AF199339, AC005486, AF030453, D88270, AC007253, AC005006, AF129108, AC000056, AC004542, AC004820, AJ239322, Z83820, AF093117, AL035420, AL021154, AC022517, AC005940, AC005088, AC005740, Z92542, Z98946, AC000159, AC006084, AC004854, AC009802, AC003108, U91324, AC005900, AC005294, AL031864, AC005094, AL021938, AL096747, AL109758, AC018633, AC005878, AL109854, Z98200, AL049564, AP000220, AC004383, AL050325, AP000101, AF053356, AC004934, AC000026, AC004253, AC005871, AC006487, AC005261, U91325, AC003689, AL133312, AC003010, AC003691, AC004938, AC005184, Z82205, AP001053, AP000696, AC009044, AL008719, AC002059, AF029308, AC002365, AC008041, AC002312, AP000084, AC007240, A1022330, AC000097, AC003024, AL117330, AL031291, AC002543, AL008730, Z94056, AC004167, AP000503, AC004025, A1049710, AC007055, AC002040, A1033521

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HMSLB94	3515	773812	1 - 317	15 - 331		AW193829.
HMSME83	3516	950970	1 - 600	15 - 614		
HMSMF12	3517	948393	1 - 443	15 - 457		
HMSMG02	3518	915179	1 - 369	15 - 383		
HMSMH05	3519	931095	1 - 594	15 - 608		
HMSMI12	3520	969636	1 - 610	15 - 624		AI1866580, AI133083, AA719073, AA469282, AA824484, AA425924, AA601674, AI114733, AI133552, AL109628, AC009247, AC005670, Z99716, AC005920, AC007917, AC005409, Z84487, AL022326, AL022163, AC004686, AF0533356, AL031846, AC004922, AL133244, AC005527, AC007216, AC007055, AC004491, AC005940, AC006538, AC005562, AC005529, AC004703, AC004815, AC003663, AC006539, AF134726, AC007688, AC005225, AC005081, AC004991, AC006021, AC002425, AC002350, AP000503, Z98884, AL034343, AC007676, AC006312, U85195, AC007285, AC020663, AL022399, AC005632, AE000658, Z97056, AL135783, AL021939, D63861, AC005914, AC005288, AF001552, AL031311, AC005015, AC004897, AC004883, AC005057, AL049776, AF064858, Z83845, AC004990, AC006509, AC005829, AL035462, AC008072, AF129756, U62317, AC004760, AL079342, AC004552, AC002301, AL049591, AC004150, AC006071, AL022165, AC006077, AC005082, AL133448, AL109798, U96629, AL022329, AC002115, AP000501, AL121603, AC016025, U91323, AL023803, AC007227, AC005746, AL049636, AL035091, AC007226, AC007686, AL035400, AF111168, AC005500, AC007685, AC005363, U95742, AL121653, AL031589, AC003037, AC002558, AL035681, AC004895, AL021808, AB003151, AL049830, Z93017, Z98742, AC005520, AF047825, AC006057, and AL024508.
HMSMK12	3521	841898	1 - 658	15 - 672		R51068, H18491, AW378532, D34614, AC006208, and AL022322.
HMSML27	3522	870008	1 - 344	15 - 358		
HMSMN04	3523	926746	1 - 179	15 - 193		
HMSMN23	3524	932548	1 - 708	15 - 722		N80156.
HMSMQ05	3525	931022	1 - 98	15 - 112		
HMSMV92	3526	934140	1 - 502	15 - 516		
HMSMX68	3527	861333	1 - 412	15 - 426		F04478, AA661921, AW438643, AA492081, F09626, A1002834, A1634384, AA584167, AA992351, D52587, F19070, AA782304, AA780944, AW193265, AW276827, A1688846, AL046409, A1619997, AA347368, AA577906, A1860013, A1345157, A1350211, AW193432, AA599920, A1289067, A1061334, AA623002, A1754658, AA873532, AL045808, AL046156,

HMSNA44	3528	861293	1 - 615	15 - 629	<p> A1814735, A1744995, A1584186, A1375710, A1133164, A1135520, A1305766, AA757797, AW302903, AW083364, A1537955, AA634165, A13420113, A1341664, A1344844, A1046266, AA719805, T51911, AA491831, AA621596, AA493695, A1431303, AW023149, AA350859, W45625, AA715355, AA664015, F00132, AA244208, AA568778, AC007314, X55932, U18390, L47228, X55929, AC005907, U18389, S77605, S70689, I51997, X54179, U18388, X55930, U57008, U18393, AD000684, X55925, U18394, U18395, U57006, U18392, U18391, S70692, X54180, U57007, AC007919, AC003005, X54175, AC006017, S70707, X55926, AF015157, X55927, AL023575, AL031668, U18396, AF015153, X53550, Z69666, Z82215, AF015147, AL109617, X54177, AF015151, AC007304, AP000473, AL049776, X55931, L81654, AC009946, X54178, AL049642, AC004043, X54181, AC006449, AL033525, U67227, U67217, AC003957, U67231, U67230, AC004072, U67801, U67226, U67229, AC000100, AC008039, AC005783, AC004593, AL132800, AC008101, A1003147, U67211, AL023807, AC005696, AC006998, Z49816, AL031281, AL133321, AC005821, U67235, AL021937, AC002470, AF088035, AL137100, X88791, AP000855, AL080242, AC005548, U67234, U67222, A1008720, AL121934, U91322, AC002429, U67233, U67225, AC004691, Z83844, Z98200, AC007682, U67228, Z98172, AL080278, AC007687, AL035681, AL035458, AP000468, AL031291, AC003080, AP000328, AL049709, AC004047, AC002347, AC004848, L43392, AC007324, AL049871, AC004675, AC006120, AC007656, Z68869, AL023804, AC005288, AC004832, AC004816, AC002037, AC005209, AC006315, AC007664, AC008079, AC007193, AL035361, AF088219, AC005533, AL049712, AL109618, AC006312, A1011932, Z97630, AL035249, U67216, AC005041, AL049829, AL031432, AC005553, AF123462, AP000144, and AL049766. </p>
HMSNR30	3529	968716	1 - 622	15 - 636	<p> A1089800, AA830179, AA830184, A1798048, AW055247, AA913784, R62312, A1219663, R62313, AA164726, Z82243, AF107840, and AL049869. </p>
HMSNR92	3530	861314	1 - 612	15 - 626	H51736, and AA352806.
HMSNX38	3531	974321	1 - 585	15 - 599	
HMSOA29	3532	953329	1 - 455	15 - 469	
HMSOA34	3533	936036	1 - 753	15 - 767	AP000083, and AL049634.
HMSOB43	3534	961779	1 - 321	15 - 335	
HMSOC76	3535	916807	1 - 238	15 - 252	AC004706, AC000357, AC016025, AC016026, L78833, AF064863, and AL023575.
HMSOE03	3536	922858	1 - 401	15 - 415	AA657671, and A1926886.
HMSOG57	3537	861298	1 - 541	15 - 555	AL031133.
HMSOM08	3538	958216	1 - 557	15 - 571	W04498.
HMSON02	3539	918397	1 - 436	15 - 450	AW157349.
HMSON77	3540	861288	1 - 613	15 - 627	AA595739, and AL022476.
					<p> T59270, AA484892, AA714073, AA857812, AA741301, A1279417, A1797998, AA728911, A1798242, AA326452, A1419337, A1361090, A1678581, A1421950, AA633565, AW303822, </p>

					AW026305, N75708, AA654535, AI859906, AI354602, AW247389, AW389929, AA830615, AA020882, AA348602, AA516247, AA664248, AI049955, T08386, AA767571, AI289050, AA339789, AI284092, T94072, AI1143653, H02532, AA358258, AI359200, F17537, F30586, AI884861, AI123488, F03907, AA984763, AI024439, AA501461, AW192518, F10822, AW372037, AL044602, AI921619, AI362442, T05617, AI570805, W78056, AA831638, AA218874, N29930, R45579, AA453558, AA916430, AW069273, AI803741, AA745302, AA730795, AL118573, AI889426, AA828045, AA578905, AA632556, AI948984, R62772, AA878407, N55041, AI948959, AI584031, AW089625, AA662989, AA504872, AA598608, AI270647, AA487569, F25640, AF001552, AC005274, AL035684, AC004383, AC006026, AL049872, AL034428, AJ003147, AC004024, AC007685, AC005088, AL109798, AL021407, AC004125, AC004832, Z73417, Z93023, AB023054, AC002287, Z98304, AC006064, AC006263, Z95331, AF095901, AF109907, Z84480, L44140, AF015416, Z98742, AC008372, AI033527, AC005972, AC007066, Z98949, AF030453, AL109827, AC005670, U47924, AC006468, AC000359, AC004882, AL034400, Z95115, AC005859, Z85996, AF196971, AC006581, AC004491, AC005529, AC007656, AL133163, AC006449, AP000240, AP000065, AL021393, AC005291, AC006538, AP000221, U91321, AP000229, AL049759, AC004961, AC005300, AC005740, AC005193, AF196972, AL121825, AC004079, AC004106, AC005598, AI022312, Z82206, AL049829, AP000008, AF111169, AL096791, AL035398, AC007917, Z68164, AL021155, AF064865, AC004055, AC007057, AC005765, AP000704, AC004890, AC005288, AL023876, AC005057, AC005327, AC005881, AC004876, AL049869, AC006211, AL022162, AL031053, AC007151, AD000812, AC007263, Z92542, AL031767, AL034548, AL022313, AC016027, AL009179, AL031311, AC003983, AL008630, AC005578, AC005048, AL035458, AL009181, AC005006, AC005209, AF165138, AF003626, AC002126, AL133371, AC005796, AL031228, AC004033, AC007193, AC002472, AP000031, AC005754, AC007664, AL096761, AC002530, AC004150, AC005940, AC005476, Z82176, AF001549, AC004025, AC007030, AC002538, AC012384, AC004408, AL031985, AC003101, AL035419, AC007450, AL022320, AC005538, AC007688, AJ251973, AL049839, AL049576, AC005081, AC005480, AC001234, AP000112, AP000044, AC007056, AL031284, AC003047, AC002116, AC004801, AC004993, AP001052, AL022315, Z93017, AC005815, AC006599, AL133485, AL031279, AC009330, AC004003, AP000272, AL031680, AP000518, AP000193, AC003071, AF060568, AC004895, AL008729, Z68269, AC005971, AP000050, AC007225, AC005015, AC007880, AC003982, AC009363, Z69366, AC005152, AP000493, AF111167, AC000394, AC004953, AC009247, AF067844, AP000045, AC006485, AP000117, AL035400, AC006130, AF038458, AL009051, AL049712, Z82203, AC007666, AL080245, AC005778, AC004887, AL109967, AL049734, AF053356, AC006466, AC004966, U96629, AC004687, AF117829, AC006160, AC006960, AC002425, AC005261, and AC007228.
				15 - 528	AL048361, and AC006950.
				1 - 514	
				963389	
HMSOO10	3541				

HMSOP01	3542	915083	1 - 580	15 - 594	AA020882, H64598, T60940, R78647, A1223968, AA487219, AA487079, AA558487, T07225, AA515224, AC000059, AL079342, AL035079, AC003071, Z93020, AC005081, AC004655, AL035555, U80017, AL049776, AC005482, AP000704, AL021154, AL121754, AP000555, AC006536, AF179633, AF196971, AC009405, AL133245, AP000355, Z84469, AC002073, AP000350, AL031673, AC002395, AC006360, AF111168, AC005826, AL109809, AC004051, AC006121, AC003669, AC005873, AC005004, AF029308, U47924, AC005934, AL109620, AC006061, AL121757, AL049780, AC005369, AC006128, AL136295, AL031311, AL031257, AC005225, AL031985, AF130247, U40455, AC000066, AC007632, AC010205, AC004764, AC005399, AC007785, AC003051, and AC007091.
HMSOQ75	3543	959856	1 - 245	15 - 259	D59619, D80253, D80196, D51423, D59927, D80219, D80366, D80193, D59889, D80043, D80045, D80210, D80240, D80391, D51250, C15076, C75259, D80195, T03269, D80022, D81030, D80227, D50995, D59275, D58283, C14014, D80134, D80188, D80038, D59787, D51799, C14227, F13647, D80378, D81026, D59467, D80168, AA285331, D80949, T11051, D80212, D50979, C14429, D80164, D59502, D59695, D80166, D59859, D80269, D80268, AI910186, D58253, D80024, T11417, D57483, D59610, AW178893, D81111, D80241, D52291, C14331, AW177440, C14389, AW179328, D51060, AW178775, AW378552, AA305409, AI557751, AW377671, D51079, AI905856, AW352158, D51097, D80522, AW178762, AW177501, AW177511, AW360834, D80014, D51022, AW360811, AW352117, AA305578, AW360817, AW176467, AW378540, AW375405, D80251, AW366296, AW360844, AW375406, AW378534, D80064, AW179220, AW179332, AW377672, AW179023, AW178905, D80248, AW377676, AA514188, AW378539, AW352171, AW352170, AW177731, AW178907, AW179019, AW179024, AW177456, AA514186, AW177505, D80133, AW178906, AW360841, AW179020, AW178909, AW179329, AW178980, AW177733, AW378528, AW178968, AW178754, AW179018, C05695, AW352174, AW179004, AW178914, AW378525, AW367967, D80132, AW177728, AW178774, AW178911, AW378543, D80302, AW352163, AI557774, AW178983, AW352120, D80439, AW178781, D80247, T48593, D80258, AW177723, D51103, AW367950, D58101, T03116, AW378533, AA033512, C06015, D80157, D51759, AL048680, AW178986, D58246, D59503, AW177734, D45260, C14975, C03092, AW378542, H67854, H67866, Z17814, AA809122, AI535850, AI525923, D80314, AI535959, AW360855, AI525917, D59317, AA514184, AI525920, AI535686, AI525227, AI525913, A67220, A25909, D26022, D34614, AR025207, Y17188, X68127, AB012117, A85396, AR066482, A85477, A62300, A86792, A62298, X67155, U87250, I19525, D89785, A78862, A44171, A84916, AJ132110, D88547, X93549, S69292, X82626, AR018138, I18371, AF135125, S78798, AR062871, I15997, AF058696, Y12724, AR037157, A80951, X92518, AR008430, AR008278, AR051191, AR064240, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, AB028859, A84772, X89963, A84776, AR067731, AR067732, A58522, A91750, A84773, A84775, A84774,
HMSOQ75	3543	959856	1 - 245	15 - 259	
HMSOU16	3544	948198	1 - 631	15 - 645	

HMSOU92	3545	947760	I - 52I	I5 - 53S	AR051190, A94995, AR023705, AR008443, A43601, I50126, I50132, I50128, I50133, X60736, A30438, AR066488, A26615, AR052274, A82595, AR016514, A45456, AR060138, Y09669, AR060385, AB002449, AR066487, A43192, A43190, AR038669, AR066490, D88507, I18367, A70867, D50010, AB012121, AB033111, Y17187, Z32749, A63261, X55486, AR008408, AR016691, AR016690, U46128, M60510, D13509, AR060133, A64136, A68321, AR000511, I14842, AR054175, U87247, AB023656, U79457, AF123263, AR032065, X93535, and AR008382.
					AA131030, and AA130991.
HMSOV17	3546	835834	I - 70I	I5 - 7IS	N70425, D59927, D59619, D80253, D80196, D80193, D51423, D80219, D80366, D80043, D51250, D80210, D59889, D80240, D80391, D80045, C15076, C75259, D50995, D80195, D59275, T03269, D81030, D80227, D58283, D80134, C14014, D80022, D59787, D80188, F13647, D80038, D51799, D81026, C14227, D59467, D80378, D80168, A4285331, T11051, D50979, D80949, D80212, C14429, D59502, D80164, W93336, D80166, D59695, D59859, D80268, D80269, H69709, D58253, A1910186, D80024, T11417, D57483, D59610, AW178893, D80241, D81111, C14331, C14389, D52291, AW177440, A1557751, D51060, AW179328, AW178775, AA305409, AW378532, A1905856, D51079, AW377671, AW352158, D51097, D80522, AW177501, AW177511, AW178762, D51022, AW360834, D80014, AW360811, AW352117, AA305578, AW375406, AW176467, AW375405, AW378540, D80251, D80064, AW366296, AW360844, AW360817, AW378534, AW179332, D80248, AW377672, AW179023, AW178905, AW179220, AA514188, AW378539, AW352171, AW352170, AW377676, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW177456, AW177505, AW178906, AW360841, AW179020, AW178909, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, AW352174, AW367967, AW179004, AW178914, AW378525, D80132, AW177728, D80302, AW178774, AW178911, AW378543, AW352163, T48593, A1557774, AW178983, D80439, AW352120, AA699681, AW178781, D80247, D80258, AW367950, AW177723, D80157, D51103, D58101, T03116, D51759, AA033512, AW378533, C06015, AL048680, AW178986, D58246, D59503, AW177734, D45260, R91284, C14975, C03092, H67854, AW378542, H67866, AA809122, A1535850, A1525923, A1535959, AW360855, A1525917, D59317, D80314, AA514184, A1525920, A1535686, A67220, A25909, D34614, D26022, AR025207, Y17188, X68127, AB012117, A85396, AR066482, U87250, A85477, A86792, A62300, A62298, X67155, I19525, A78862, A44171, D89785, A84916, AJ132110, D88547, S69292, X93549, I18371, X82626, AR018138, AF135125, AF058696, S78798, AR062871, I15997, AR037157, AR051191, A80951, X92518, AR008430, I68636, Y12724, A20702, AR062872, A43189, AR062873, A43188, A20700, AR008278, AR017907, AR064240, AR051190, A84772, AR067731, AR067732, A58522, A91750, A84776, A84773, A84775, A84774, AB028859, AR023705, X89963, A94995, AR060138, AR008443, A43601, I50126, I50132, I50128, I50133, X60736, AR066488, A45456, A82595, AR016514, Y09669, A76615

HMSOW85	3547	827823	1 - 693	15 - 707	<p>AR052274, A43192, A43190, AR038669, A30438, AR060385, AB002449, AR066487, I18367, AR066490, AB012121, D88507, D50010, Y17187, AB033111, A63261, Z32749, A70867, AR008408, X55486, AR016691, AR016690, U46128, M60510, A64136, A68321, D13509, AR060133, AR000511, I14842, AR054175, U87247, AB023656, U79457, AR050680, AF123263, AR032065, AJ000347, X93535, and AR008382.</p> <p>D59619, D80253, D59927, D80196, D80219, D51423, D80166, D59889, C75259, D59275, D80045, D50995, C15076, D80134, D80193, D59787, D80043, D80227, D80210, D80240, D80391, D51250, C14227, D80022, D80168, D80038, D80195, T03269, D81030, D58283, C14014, D80188, D51799, D81026, F13647, D59467, D80949, D80378, T11051, AA285331, D50979, D80212, C14429, D59502, D80164, D80166, D59695, D59859, D80269, D80268, D58253, A1910186, D80024, A1557751, T11417, D57483, D59610, AW178893, D80241, D81111, D52291, C14331, AW177440, C14389, D51022, D51060, AW179328, AW178775, AW369651, AA305409, AW378532, A1905856, D51079, AW377671, AW352158, D51097, D80522, AW178762, AW177501, AW177511, AW360834, D80014, AW352117, AW360811, AA305578, AW176467, AW375405, AW378540, D80251, AW366296, AW360844, AW360817, AW375406, AW179023, D80064, AW378534, AW179332, D80248, AW377672, AW178905, AW179220, AA514188, AW179019, AW378539, AW352171, AW377676, AW352170, AW177731, AW178907, AW179024, AA514186, D80133, AW177505, AW178906, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, A1557774, AW352174, AW179004, AW178914, AW378525, D80132, AW367967, AW177728, D80302, AW178774, AW178911, AW378543, AW352163, AW178983, D80439, AW352120, AW178781, D80247, T48593, D80258, AW177723, D51103, T03116, D58101, AA033512, AW378533, C06015, AW367950, D80157, D51759, AL048680, AW178986, D58246, D59503, AW177734, D45260, AL043445, AL043423, AL038821, AL039085, AL039150, AL043441, AL039156, AL044530, AL039564, AL039538, AL039108, AL039386, AL039678, AL039074, AL038837, AL039625, AL039648, AL039629, AL037726, AL038531, Z99396, AL039109, AL040992, AL039924, AL039128, AL044407, AL036973, AL045337, AL037051, AL045353, AL036725, AL039423, AL039410, C14975, AL045341, AL039509, AL039566, AL039659, T23659, AL042909, H00072, D80314, T24119, AB011127, A67220, A25909, D34614, D26022, AR025207, Y17188, X68127, AB012117, A85396, AR066482, A85477, A86792, U87250, I19525, A62298, A62300, A44171, X67155, I68636, D89785, A78862, A84916, S69292, AJ132110, I18371, D88547, AR062871, S78798, AR037157, A80951, AR008430, X93549, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, X82626, AR018138, X92518, I15997, A84772, AR067731, AR067732, A58522, A91750, A84776, A84773, A84775, A84774, AF135125, AR051191, AF058696, Y12724, AR008278, AB012121, AR064240, AR051190, A26615, AR052274, AB028859, AR023705, X89963, A94995, AR008443, A43601, X60736, I50126, I50132, I50128, I50133, AR066488, A82595, AR016514,</p>
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HMSOX47	3548	948202	1 - 742	15 - 756	<p>X55486, AR060138, A45456, Y09669, A30438, AR060385, AB002449, AR066487, Y11458, A43192, A43190, AR038669, AR066490, D88507, Z32749, I18367, D50010, AB033111, Y17187, A02712, A70867, A63261, Y11449, S70644, Y11447, AR008408, A95051, AR016691, AR016690, U46128, AR064706, I84553, I84554, M60510, A97211, A91754, A91754, AR031374, A49700, AR031375, A58521, AR020969, A38214, X58217, I56772, I95540, AR018924, A63067, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR068506, D13509, AR000006, AR015960, AR000007, AR015961, AR061736, AF130655, X73004, AR060133, AF019720, D14548, I19516, AB007195, A18053, I06859, A23334, A75888, I70384, A60111, A23633, A23998, A58524, A58523, I00074, D44443, D88984, AR018970, A95052, A18050, AR007512, AR036905, A1244003, A1244004, A1244005, AR054723, A04441, A04442, A98767, A04447, A04448, A93963, A93964, I63120, AR043602, AR043603, AR043601, I66495, I66494, I60241, I60242, AR038762, I66486, I66487, A64136, A68321, AR000511, I14842, AR054175, U87247, I66498, I66497, I66496, I12420, AR054109, AB023656, A97171, A97217, D61405, U79457, AF123263, A64081, A24783, A24782, and AR032065.</p> <p>D80193, D59619, D80253, D80196, D80043, D51423, D80210, D59927, D80219, D80240, D80391, D51250, D80366, D80195, D59889, T03269, D81030, D80227, D58283, C15076, D80045, D80022, C75259, D80188, C14014, D50995, D80038, D51799, D59275, F13647, D80378, D80134, AA285331, D81026, D59787, D59467, C14227, D80949, D80168, D80212, D50979, C14429, T11051, D80164, D80166, D59502, D59859, D59695, D80269, D80268, D58253, A1910186, D80024, D57483, T11417, D59610, A178893, D80241, D81111, A1788532, D52291, C14331, A177440, C14389, D51060, A179328, A178775, AA305409, AW352158, AW377671, A1905856, D51079, D51097, A1557751, D80522, A178762, A177501, A177511, A177511, AW360834, D51022, D80014, A17378540, A17360811, AA305578, A176467, A1735405, D80251, A17378539, A17366296, A17360844, A17360817, A1735406, A17378534, A1739332, D80064, D80248, A1737672, A179023, A178905, A179220, AA514188, A17352171, A17352170, A17378528, A1737676, A177731, A178907, A179019, A179024, AA514186, D80133, A177505, A178906, A1760841, A179020, A178909, A177456, A177733, A17378525, A179329, A178980, A178980, A178754, A179018, A17352174, C05695, A17378543, A179004, A178914, A177728, D80132, A17367967, A17352163, D80302, A178774, A178911, A178983, D80439, A17352120, A178781, D80247, T48593, D80258, A177723, A17378533, A1557774, D51103, T03116, AA033512, D58101, C06015, A17367950, D80157, D51759, A1048680, A178986, D45260, D58246, D59503, A177734, A17378542, C14975, H67854, C03092, H67866, AA809122, D80314, A1535850, A1525923, A1535959, A17360855, A1525917, D59317, AA514184, A1525920, A1535686, A1525227, A1525235, A1525913, A67220, A25909, D34614, D26022, Y17188, AR025207, X68127, A62300, A62298, X67155, AB012117, A85396, AR066482, A85477, A86792, U87250, I19525, A78862, D89785, A84916, A132110, A44171,</p>
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HMSOY61	3549	836082	1 - 377	15 - 391	AC005874, and AF134471.
HMSOZ02	3550	918388	1 - 1147	15 - 1161	AA005234, AA131795, AI247788, AI247795, AA678394, H62467, H61493, AA131845, and AA242846.
HMSOZ19	3551	958680	1 - 276	15 - 290	
HMSPA04	3552	922863	1 - 450	15 - 464	
HMSPA09	3553	948209	1 - 315	15 - 329	D80038, D81030, D80195, T03269, D80193, D59927, D51423, D59619, D80227, D80210, D51799, D80391, D80240, D80253, D58283, D80196, D80188, D80219, D80043, D80022, D80366, F13647, D59889, D51250, D59275, C15076, D80378, D80045, D80134, C14014, C75259, D50995, D80212, D80949, D81026, D59467, D59787, D80168, AA285331, C14227, C14429, D80164, D59502, D80166, D59695, D50979, D59859, D80268, D80269, D58253, T11051, AI910186, D80024, D57483, D59610, D81111, D80522, AW178893, D80241, T11417, C14331, D52291, AW177440, C14389, D51097, D51060, AW179328, AW378532, AW178775, D51079, AA305409, AW377671, AI905856, AW352158, D80014, AW178762, AW177501, AW177511, D51022, AW360834, AW352117, AW360811, AA305578, AW375405, AW378540, AW176467, AW377672, AW179220, D80251, AW378539, AW366296, AW360844, AW360817, AW375406, AW378534, D80248, AW179332, AW179023, AI557751, AW178905, D80064, AW177505, AA514188, AW352171, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AW178906, AA514186, D80133, AW179020, AW360841, AW378528, AW178980, AW178909, AW177456, AW179329, AW352174, AW177733, AW178908, AW178754, AW179018, C05695, D80132, AW378525, AW367967, AW179004, AW178914, D80247, AW378543, AW177728, D80302, AW178774, AW178911, AW352163, D80258, AW178983, D80439, AW352120, AW178781, T48593, D58101, AW177723, AW378533, T03116, D51103, AA033512, C06015, AW367950, D80157, D51759, D58246, D59503, AW178986, AW177734, AI557774, AL048680, D45260, C14975, AW378542, C03092, H67854, H67866, AA809122, AI535850, AI525923, AW360855, AI535959, AI525917, D59317, D80314, AA514184, AI525920, AI535686, AI525227, AI525913, A67220, A25909, D34614, D26022, A62300, X67155,

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HMSPA41	3554	951971	1 - 626	15 - 640	AL133063.
HMSPB03	3555	922853	1 - 556	15 - 570	
HMSPB63	3556	861264	1 - 590	15 - 604	
HMSPB92	3557	948104	1 - 545	15 - 559	D59619, D80253, D59927, D80193, D80195, D80196, D51423, D80210, D80391, D80240, D80227, D80043, D58283, D80219, D81030, T03269, D80366, D51250, D80022, D59889, D80188, C15076, D80038, D51799, D80045, D59275, D80378, F13647, C75259, C14014, D50995, D80134, D81026, D59787, D59467, D80949, D50979, C14227, AA285331, D80168, D80212, C14429, T11051, D80164, D59695, D80166, D80269, D59859, D80268, D59502, D58253, A1910186, D80024, D57483, D59610, T11417, D81111, AW178893, D80241, D52291, C14331, C14389, AW177440, D51060, D51079, AA305409, AW179328, AW178775, AW369651, AW378532, AW377671, A1905856, AW352158, D51097, D80522, D80014, AW178762, AW177501, AW177511, D51022, A1557751, AW360834, AW352117, AW360811, AA305578, AW176467, AW378540, AW375405, D80251, D80064, D80248, AW366296, AW360844, AW360817, AW179220, AW375406, AA514188, AW378534, AW179332, AW377672, AW179023, AW178905, AW378539, AW352171, AW377676, AW352170, AW177731, AA514186, D80133, AW178907, AW179019, AW179024, AW177505, AW178906, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, C05695, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, D80132, AW179004, AW178914, AW378525, AW367967, D80302, D51103, AW177728, AW178774, AW178911, AW378543, AW352163, D80439, D80247, AW178983, D80258, AW352120, AW178781, T48593, AW177723, A1557774, D58101, T03116, C06015, AW378533, D80157, AA033512, AW367950, D51759, D58246, AL048680, AW178986, D59503, AW177734, D45260, C14975, C03092, H67854, H67866, AA809122, AW378542, A1525923, A1535850, A1535959, AW360855, AA514184, A1525917, C14973, D59317, D80314, D59474, A1525920, A1535686, D59551, A1525227, A1525235, A1525925, AC005280, A67220, A25909, D34614, D26022, AR025207, Y17188, A62300, A62298,

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HMVAJ53	3558	728009	1 - 388	15 - 402		AA504812, AF208502, L24051, and L12147.
HMVAL74	3559	684574	1 - 518	15 - 532		AF150282, AI276243, AW090199, AI022691, AI249193, and AI033035.
HMVA726	3560	789064	1 - 689	15 - 703		
HMVAW08	3561	962197	1 - 280	15 - 294		AI580823, AA993162, AI472918, AI368750, AI453823, AA747678, AA888560, AW242191, AI350319, AA211927, AA725398, AA917463, AA742371, AA732102, AI218576, AI129408, AI474325, AA594345, AI310062, AI560613, AA056507, AA747426, AA905372, AI216359, AA405612, AA884092, AA879006, AI820689, AI150838, T32650, D20227, AA666388, R36652, AI372931, AI149128, AI963448, AA115748, AI290638, AW009341, AA524305, N32841, AI460321, AW076026, T24776, AA858246, T63577, AW118055, W31629, AW265569, AA676598, T63502, A85117, and AC005192.
HMVA55	3562	574215	1 - 228	15 - 242		AI130740, AI131523, and AW016460.
HMVBA36	3563	698060	1 - 528	15 - 542		
HMVBD70	3564	735696	1 - 549	15 - 563		
HMVBD84	3565	782910	1 - 333	15 - 347		
HMVBO01	3566	916072	1 - 665	15 - 679		Z58983.
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HMVB034	3567	735873	1 - 1157	15 - 1171	AI498153, AC005578, AC004893, AL109758, AC005088, and AF030453.
HMVB026	3568	681408	1 - 516	15 - 530	W48568.
HMVBV30	3569	861196	1 - 516	15 - 530	W16683.
HMVBW94	3570	883659	1 - 200	15 - 214	

HMVCG47	3571	719936	1 - 398	15 - 412	
HMVCO55	3572	868146	1 - 224	15 - 238	
HMVCR47	3573	661425	1 - 452	15 - 466	
HMVCT75	3574	715950	1 - 363	15 - 377	AL119355, AW392670, U46350, AL119319, AL119484, AL119363, AL119391, AL119497, AL119439, AL119335, AL119324, AL119457, Z99396, U46349, AL119483, AL119443, U46347, AL119522, AW372827, AW363220, AW384394, U46351, AL119444, AL119418, U46346, U46341, A81671, AR066494, AR060234, AR054110, and AB026436.
HMVCX10	3575	963828	1 - 461	15 - 475	N99112, AW452701, AA428994, and AA766700.
HMVCY46	3576	662311	1 - 359	15 - 373	AP000496.
HMVCZ64	3577	767714	1 - 350	15 - 364	AA323534.
HMVDA11	3578	861185	1 - 330	15 - 344	AB033030.
HMVDA30	3579	691608	1 - 306	15 - 320	
HMVDF10	3580	970480	1 - 348	15 - 362	AA306716, A1272308, N46300, AA533231, and AL122098.
HMVDF66	3581	915638	1 - 139	15 - 153	AA129862.
HMVDF83	3582	701907	1 - 344	15 - 358	
HMVDG76	3583	861179	1 - 409	15 - 423	
HMVDH06	3584	934778	1 - 113	15 - 127	
HMVDI38	3585	709243	1 - 769	15 - 783	N71412, W00789, N99736, T90278, N73838, and AL096710.
HMVDJ75	3586	710475	1 - 543	15 - 557	AL034384.
HMVDR49	3587	722581	1 - 367	15 - 381	AL034562.
HMVDI07	3588	952488	1 - 703	15 - 717	W38609.
HMVDU16	3589	904807	1 - 1328	15 - 1342	R89846, H61529, R89885, AA203599, H57092, A1567351, A1571551, A1919345, A1701074, A1590530, A1612759, AW103893, A1828731, A1554427, A1921248, AW082040, A1824557, A1745713, A1868831, A1569616, A1224992, A1475451, A1872711, A1476046, AW102785, A1249323, A1273142, A1281779, AW148320, A1950664, A1891157, A1682841, A1917055, A1433976, A1918655, A1269696, AW059837, A1590999, A1690312, A1632033, A1648663, AW103371, A1888953, A1520931, A1872545, A1873644, A1926790, A1640379, A1561299, A1697304, AW002342, AL079963, AW148716, AL036361, A1590120, AW088134, A1687065, A1923768, A1628292, A1867042, A1801325, A1335449, A1862144, A1289937, AL040243, A1251830, A1887151, A1636719, A1539153, AA640779, A1866608, A1886124, AW238730, A1612920, A1364788, A1633419, A1445165, AW082060, AW162071, A1815855, AW302988, A1269862, A1572676, AW161579, AL038445, A1610645, A1863477, A1800453, AL036403, A1680498, AW129202, AA613907, A1498579, A1866002, A1623396, A1696612, A1274508, A1284509, A1499285, AA508692, A1890833, A1805638, AW150578, A1564719, A1952360, AL045266, A1889376, AW403717, A1524671, A1249257, A1521012, AW051258, A1254251, AW132056, A1619502, A1571909, A1677796, A1802542, A1702433, A1591316, A1922901,

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HMVDW09	3590	625070	1 - 307	15 - 321	
HMVDZ70	3591	878247	1 - 1205	15 - 1219	AW003291, AA927510, AA552415, AA210860, AW295775, AW450098, H14682, AW451140, AW450099, AA768028, AA323759, AA325907, R18955, AA588782, AA326001, AA736511, AA045961, AA768029, AW294299, R43963, A1923497, A1204450, A1609388, A1766770, AW075933, R50434, AA045960, T99804, AA325957, AW028853, R50435, AA573803, AW388521, H58575, AA190436, AW388475, AA299925, A1673040, AA534412, T99909, A1798620, A1743143, A1745610, AW167112, A1952808, A1751485, AA609752, A1743323, AL137509, and AF207550.
HMVEA91	3592	774609	1 - 210	15 - 224	T93923, AA693730, AA693709, and AA780005.
HMVEF33	3593	701908	1 - 325	15 - 339	
HMVEH72	3594	750931	1 - 292	15 - 306	U69274.
HMWBE16	3595	527509	1 - 243	15 - 257	
HMWBG29	3596	890878	1 - 251	15 - 265	AL049844.
HMWBI47	3597	527593	1 - 328	15 - 342	AW405398.
HMWBK07	3598	954098	1 - 43	15 - 57	
HMWBK24	3599	524357	1 - 204	15 - 218	AA630672, AA487621, AA579179, AA779013, AW148507, AA127426, AW270343, AA618452, AA299189, AA101689, AW085855, A1382825, AA080866, A1459245, AA410788, AL037554, H53828, A1056177, H96467, AA018283, AW179306, A1434695, R31790, AA553720, AA522642, AW341869, A1733856, AW439555, AA493136, AA114077, AA487888, A1343864, AA828062, AA572713, AA320966, A1421755, AA610219, AA297666, AP000556, AC006153, AP000557, AL121652, AC006511, AC005037, AC005548, AL021407, AC000085, AC007707, AL034402, AL080243, AC006539, AC009464, AC007270, Z98752, AC006313, AL034549, AP000042, AP000110, AC007671, AC006050, AL022320, AC008079, AC002468, AC004815, A1022476, AC007057, AL031670, AL020995, AC008038, AC011504, AC007193, AP000359, AL031666, AC005058, AC011311, Z99716, AF029308, AC006210, AF111169, AC005971, AC002310, AC007055, AC004890, AC005011, AC006012, AL008725, AC004823, Z97352, AC012627, AL049761, AC004205, U66059, AC000025, AL117355, AC008072, AC004030, AL050318, AC004686, AP000226, AL031311, AC007242, AC008014, AF196779, AC005369, AC005158, AC004894, AC005565, AL110292, Z98048, AL031589, AC004263, AC004148, AC005484,

HMWBM0	3600	967687	1 - 381	15 - 395	AC007688, AL132992, AP000432, AC007546, AL109627, AC005900, Z85996, AC004966, AC004593, AC004028, AC009516, AC005581, AP000558, AC005796, AC005527, AC005632, AC003109, AC005412, AC002395, U95742, AC004020, AL049653, AC004386, AC005972, U95739, AC006277, Z97181, AL023755, AL021155, AL050308, AC010722, AC005844, AP000512, AP000511, AC006040, U91326, Z97056, U78027, AL079295, AC005529, AF117829, AC007565, AF134726, Z83826, AC004478, AL031577, AC006211, AC000364, AC005863, AP000087, AC002425, AC008040, AC003029, AC002492, AF141309, Z94056, AC007919, AC005839, AC007425, AC005243, AL035252, Z97054, Z93017, AL050341, AP000009, AL008718, U91318, AL109967, AC020663, AC005031, AC005291, Z78022, AL133245, AL022146, AC004073, AC006023, AC013248, AC006130, AC006576, AC007773, AL033397, AC004388, AC002558, AC004230, AC008101, AP000555, Z84483, AC004999, AC003003, AL022329, AC006285, AC016831, Z84469, AC004381, AL008582, AC006271, AC005730, AC005081, AL121694, AL121825, AC002115, and AL121654.
HMWBN56	3601	745698	1 - 442	15 - 456	AL121534, H05681, T09309, N36636, AA853335, AA216518, AA115428, AA188847, AA404726, AF151803, and AL049839.
HMWBO07	3602	839360	1 - 490	15 - 504	AA025913, H26505, AW080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWBR86	3603	731650	1 - 337	15 - 351	
HMWBV45	3604	861152	1 - 349	15 - 363	
HMWCG29	3605	723779	1 - 212	15 - 226	AA350169, AA207226, AL039395, AA359708, AA371441, T84879, AA019568, AA307901, R35023, R59278, AA371174, AA359314, AA359967, and AL050286.
HMWCQ09	3606	924634	1 - 534	15 - 548	AL583448, AL252010, AL252880, N40760, AA601674, AA129746, H94878, AA533054, AA550850, AA207152, AA564479, AA084230, AL654305, AA602906, AC000353, AL132712, AC005567, Z84487, AC005360, AL035603, AC005737, Z84469, AC007731, AC004033, AL031255, AC005500, AC005531, AL008718, AP000355, AC006509, AP000553, AC007686, AL049539, D87675, AC002069, AL035659, AC007199, AL050306, AC005828, AC008127, AC004263, AL035405, AC006359, Z98200, AL008583, AC005740, AC005049, AC003667, AC005952, Z82190, AP000314, AC006006, AC005919, AC005899, AL035071, L47234, U91322, AL133246, AC005535, AC003070, AB003151, AL031685, Z99716, Z99943, AC005048, AC005233, AC002395, AC004851, AC004912, AL078595, AC007766, AL049709, AL031311, AL133485, Z93096, AC006111, U91321, AC007919, AC005399, AL109984, AF001550, AC002302, AF001548, AC000085, AL121652, AC005387, AC004583, AL008582, AC006112, AC005284, AL139054, AL110505, AL031447, AL049778, AL035447, AL080243, AC008115, AC004234, U91326, AL008630, AC006075, AF132033, AC006958, AF160252, AC007773, AC005596, AL022163, AC006011, AP000194, AC002455, AC006160, and AC005237.
HMWCQ58	3607	738372	1 - 585	15 - 599	AA814994.

HMWCV08	3608	960083	1 - 287	15 - 301	R71737, AA904211, A1537108, A1354333, AA775188, AA341865, A1754066, A1554405, A1600497, R39329, AA604495, AA373107, AA598605, AA362791, AA372669, A1049630, AW054936, AC005225, AC006064, AP000688, Z99716, AC006241, AC005839, U91323, AF024533, AC005971, AC005920, AC007666, AC007793, Z93783, AC000052, AC002312, Z83845, AC006211, AC006449, AC005666, AC004019, AC004491, AL008637, AC004983, AF036581, AC005696, AF064090, AC005516, AL121658, AC005229, AJ003147, AL049829, U91321, AF134726, AF102137, AC000134, AF222686, AL109865, AC006312, AL049636, AC004526, AP000553, AF108459, L4140, AF111169, AL049830, AC004030, AL050348, AC004975, AL121694, AC004851, AL078593, AC008040, AC002350, AC002565, AC004814, AL049394, AF200465, AF053356, AL021939, AC005924, AL031279, AC006057, AC007488, AC005015, Z98200, AL035071, AC004771, AC004531, AF196779, U89335, AL022326, AL035086, AL023807, AL049776, AL031659, AL031311, AL031053, AC005911, AC004890, AC005787, AF045555, AC002470, AL049709, AL121782, AP000104, AC007938, AC005527, AC007225, Z49258, AL031597, AL033538, AC005899, AL049538, AL022313, AL132712, AB023048, AL031291, AL136295, AC005288, AL136168, AC007393, AC004874, AC005228, AC004929, AC006552, AC007707, AL135746, and AL031283.
HMWCX60	3609	531395	1 - 294	15 - 308	
HMWDD54	3610	932261	1 - 598	15 - 612	
HMWDD75	3611	800023	1 - 304	15 - 318	A1809080, AA379813, A1924837, A1609008, A1492061, A1080471, AA860342, AW273457, AA723182, AW170759, U46317, A1693837, R68374, R27368, AA579485, A1809655, AA173648, A1280048, AA173958, AA903598, AA187926, A1674623, AA653977, AA182901, F31240, AB020860, L46722, and U21855.
HMWDF88	3612	906769	1 - 349	15 - 363	H94922, R78249, AA448990, R14119, and N47060.
HMWDH23	3613	676216	1 - 397	15 - 411	
HMWDL52	3614	921603	1 - 368	15 - 382	A1248959, A1969858, AA210772, A1935498, A1023405, AW139513, A1914255, and AF161349.
HMWDQ83	3615	558021	1 - 331	15 - 345	M86156, A1383528, A1648449, AA708182, AW149204, A1565505, A1569929, AA830935, AF136415, A1915216, AW025607, AA635323, A1269112, A1301909, A1808701, AW275607, A1268340, N86439, AC004692, AC004389, AL022150, AF022141, A1229041, AC008372, AC005164, AC006957, Z70272, AC004103, AC004217, AL049710, AL080273, AL031585, AL050311, Z83745, X63690, AJ006997, AL096770, AC009308, AC005900, AC011422, AL035563, AC005532, AL049834, AC000060, AL021026, AC006152, AL133247, AL022154, AC005191, AC000113, AC006384, Z96074, AL122127, AF121782, AC006972, AC005376, AL049734, AF064857, AC007656, AC007313, AL020989, AL118497, AC004506, AL049563, AL118503, Z97055, AL121657, AC009399, AL136297, AC006984, AC002507, AL021068, AL136130, AC002368, AF121899, AC005537, AC006153, AL031965, L42098, U85195, AL050308, AE000658, AC005022, AP000161, AP000019, Z98052, AL023582, AC002366, AF001905, AC006083, AC004963, AC000065, AL022401, AL008633, AP000855, AC004981,

HMWDW6 0	3616	712083	1 - 302	15 - 316	AP000949, AL080277, Z98755, AL049647, AC006600, AL031121, Z82211, AC005245, AL021307, AC005483, AC006054, AC004941, AL049871, AC007563, AC006928, AC005393, Z95328, AF130247, AC005162, AC005993, AL049767, AC004843, Z98948, AC004384, AC004066, Z47556, AL022157, AF165138, Z84476, AL133512, AC007102, AC005915, AC002526, AF114156, AC010169, AL132708, AC006151, AC005536, AL035467, AC003013, AC005701, AP001067, AL121595, AL109759, AL035079, AC009501, AC005201, AF003627, Z82212, AL096704, AC003084, Z49918, AC006257, AP000965, AP000459, AC005036, AC000029, AL121576, AF172277, AL031230, AF201337, AL035451, AJ011930, AC004993, AL031116, AC010382, AC005509, AL121838, AP000150, AC004038, AC007934, AF117829, AC005337, AC005999, AP000009, AL030998, AC010200, AC005070, AC003683, AC009479, AC006369, AC007298, Z82975, AC002545, AP000457, AL034403, AC004677, AL049549, AC004551, AP000704, D87010, Z83820, AL022577, Z83848, AL110505, AL008728, AC006976, AC009286, AF070718, AC006149, AP000022, AC007564, AF003528, D87009, AC008071, AF118808, AC002492, AC007128, AP000163, AC004074, and AC004020.
HMWDY93	3617	573513	1 - 371	15 - 385	AL137658, and AC005343.
HMWDZ73	3618	573754	1 - 221	15 - 235	
HMWDZ77	3619	573494	1 - 237	15 - 251	
HMWEE04	3620	709334	1 - 312	15 - 326	AA552576.
HMWEG24	3621	781017	1 - 561	15 - 575	AA158500, H50330, H43516, Z44332, Z60555, and Z65232.
HMWEJ73	3622	767384	1 - 360	15 - 374	AI760719.
					AW328173, AW152205, AW385309, AA279517, AI167428, AA452524, W65387, AI745322, T63422, AI826716, AI978981, AI818495, W61291, AA828979, AW410086, AA098876, AA364030, AA773566, AA093538, AA098877, AA886992, AJ007398, AC007226, and AC007371.
HMWEK11	3623	967362	1 - 925	15 - 939	Z46095, AA458817, AA601434, AA340097, AA364315, AL008729, AC004510, AC004791, Z85986, AL022400, AL135783, AL049797, AC003101, and AP000962.
HMWEK39	3624	573604	1 - 235	15 - 249	AJ224170, AJ224166, AJ224169, AJ224168, and AJ224167.
HMWEM8 5	3625	783973	1 - 376	15 - 390	AA913138, AA423926, AA913371, AJ223267, AI313130, AW451350, AW402718, AA825964, AA831628, AA954510, AW151296, AA813817, L44288, AW450780, AI470126, AW241985, AW117223, AI080479, AW169986, AA482277, AA482179, W07615, AA535546, AA469966, N50150, H92386, R88465, AI080018, and H07524.
HMWEP07	3626	953749	1 - 806	15 - 820	AA026434, AA026362, AW371765, and AB002340.
HMWES31	3627	861129	1 - 303	15 - 317	
HMWFC21	3628	752826	1 - 363	15 - 377	AC002398.
HMWFE01	3629	917150	1 - 122	15 - 136	

HMWFH47	3630	738220	I - 473	15 - 487	T86765, AA355300, AA262872, AA313285, W39312, AA373610, AA314442, AW327419, N28311, W26959, AW246991, AA147465, AI193121, AA143349, T85873, AA026924, W02364, AA355802, AW160522, W02991, H11880, C04326, N28909, AW162940, AA112862, AA147394, AW190189, AI369463, AW246218, AA079419, AA156348, and AF132959.
HMWFI54	3631	573598	I - 262	15 - 276	
HMWFO10	3632	954979	I - 177	15 - 191	
HMWFP33	3633	702618	I - 200	15 - 214	AC002454, and AL118497.
HMWFP60	3634	576880	I - 443	15 - 457	H71678, AA568314, AW419389, AI889696, AA602906, AI613389, AW151824, AA593501, AI271762, AA622801, AA502207, N73060, AA610433, AI791475, AL042373, AA152404, AW237905, AW023111, AI251429, AW117740, AA708678, AW177869, AA644090, F17700, AA747757, AA347969, AA077776, AI187148, AC005726, AC004750, AC004647, AC005046, AC002120, AL031670, AP000115, AC005412, Z94056, AL050348, AC005015, Z83844, AC006130, AC007263, U91323, AP000501, AF207550, AC005004, AC006006, AC005039, AL121603, AL109628, AC007240, AP000694, AF126403, AL049830, AC004975, AC003982, AL031283, AL049712, AC004832, AP000047, AC005695, AC000118, Z95115, AC006449, AC006146, AC005081, AP001056, AC007199, Z98742, AL096701, AL139054, AL096774, AC005209, AL132712, AL049569, AC005625, AC004139, AL035443, AC005696, AC005391, AC007845, AC007151, AL109627, Z84488, AP000305, AC002425, AC007934, U91326, AC005730, AC006487, AF108083, AL035681, AL031657, AC016025, AC004622, AC002347, AC004583, AP000120, AF109907, AL031281, AC003070, AL031846, AC007450, AC003108, AC006120, Z95152, AC002470, AC006271, AC005736, AC007686, Z83838, AL031591, AC007687, AC004858, AC005971, AC002059, AC002365, AC006050, Z82180, AC007114, AL121658, AL031587, AL135783, L78810, Z83826, AC007283, AF196969, AC004966, AP001051, AC006530, AC020663, AL133163, Z84466, AC005291, AC006388, AI246003, AC006101, AL035400, AP000556, AL133246, AL021393, AC005486, AC005193, AL034423, AC000025, AC008012, AC005684, AC005251, AC004887, Z85987, Z93241, AL031597, AP000167, AP000052, AC003043, AL109984, AP000552, AL024498, AC002302, AP000553, AC005220, AF038458, AD000091, AC007052, Z97181, AC004841, AC007993, AP000503, Z85986, AC005969, AC006960, AL035683, AP000555, AC005972, AL031295, D88268, U62293, AC005778, AC005531, AF129756, L44140, AC003688, AC005529, Z98752, AC004509, AC004253, AL049757, AC006236, AC005666, AC005057, AB020864, Z83840, U95742, AL022237, AC005940, AC003037, AC004765, AL049694, AC007546, AC006430, AC004601, Z98036, AC004791, AL021155, U91322, AB020866, AL009181, AL034582, AL022302, AC002375, AC005003, AC004813, AL121652, AC005943, Z84480, and AC005839.
HMWFO91	3635	573551	I - 251	15 - 265	AA453990, and AI696031.
HMWFR11	3636	967371	I - 113	15 - 127	AL022318.
HMWFO05	3637	861119	I - 319	15 - 333	

HMWFU85	3638	659578	1 - 658	15 - 672	AA476558, A1744905, and A1035977.
HMWFU7	3639	727236	1 - 225	15 - 239	AC004878, AC006014, AC006480, AC005488, and AC005071.
HMWGC08	3640	959838	1 - 500	15 - 514	
HMWGF22	3641	861104	1 - 351	15 - 365	
HMWGG55	3642	920575	1 - 313	15 - 327	
HMWGGK95	3643	576885	1 - 362	15 - 376	C16083, AR031682, and AR050617.
HMWGGQ80	3644	575822	1 - 537	15 - 551	R69751, R70467, H80879, H80878, H69771, A1011930, AL049835, Z95126, Z94277, Z84481, AL023279, AL022152, AC002071, AC010186, AC005303, AC004985, AL008706, AL034545, AC004825, AL035466, AC006007, and AL023579.
HMWGT07	3645	953454	1 - 946	15 - 960	AA292171, A1194002, A1291200, AA702786, AA935514, A1749691, A1734516, A1570407, N52183, A1470179, A1301560, A1565962, A1263083, AA442075, A1262533, A1953743, A1992355, AA725905, A1458151, A1057281, A1350058, A1765586, A1300345, A1147626, N22467, A1083096, A1304886, A1818816, A1298938, N31044, AA442178, AA251570, AA411536, A1917092, A1984370, A1200607, A12041665, A1270856, A1298116, A1948774, A1693857, A1337892, A1216845, W92870, W35349, A1275375, R64446, A1340470, F09033, W92747, A1215812, R56870, AA854471, W32863, R63834, A1340931, AA573328, AA251002, R26470, R28480, H39705, AA737193, AA737108, H61908, and A1348059.
HMWGU64	3646	823460	1 - 415	15 - 429	
HMWGV63	3647	576854	1 - 224	15 - 238	A1872915.
HMWGX38	3648	709249	1 - 395	15 - 409	AW449350.
HMWGX50	3649	959293	1 - 1759	15 - 1773	A1823360, N76186, A1444682, A199658, A1090198, A1374757, N64773, A1769715, N53704, W49490, A1026060, A1801785, AA961099, W49491, A1190947, A1287331, A1742199, A1769707, A1219372, R72390, R63399, R69629, R69723, AA064629, H18928, W73451, D20803, AA527475, A1187711, A1472100, W73390, H19367, AA064753, R63455, and A1093177.
HMWHA91	3650	684346	1 - 315	15 - 329	
HMWHB03	3651	861108	1 - 371	15 - 385	AA654781, A1754544, R73754, A17080185, AA584125, AA531580, R08918, AA845209, AA487726, A1081194, AA633762, A1037910, A17341978, AC004690, AC019014, AL080248, U78045, AC007981, AC006120, AC004953, U41069, AC004854, AL133238, AC008062, AL021978, AL022336, AP000556, AC004805, AC005377, AC009721, AF109907, AC008018, X92412, AL021579, A1031659, AC006343, AC005144, AL022312, AC006130, U85195, AC006006, AC003102, A1035464, AC012330, AE000658, AC006146, U52112, AL022313, AL049872, AC004590, AC008132, AC008079, AC004531, Y14768, AC005887, AF129756, AC005871, AP000550, AC005752, AL032821, AC004859, AL121591, AP000557, AL034548, AC005175, AC000381, AC007421, AP000505, AC005800, AL021154, AL136295, AC004752, AC000094, AC007546, U85196, AC003663, AC007325, X69516, AP000240, Y15994, AC003950,

HMWHF58	3652	584538	1 - 424	15 - 438	AL035417, AC004966, AI008723, AC008115, AC005043, AC006459, AC005353, Z77249, AL009172, AC004993, AD000813, AI049765, AC004033, and AC006478.
HMWHM3 0	3653	676413	1 - 320	15 - 334	AI763355, AI911988, AW271204, AI419935, AW196356, AA831500, AA705874, AI609777, AI632367, AA825907, AI247514, AA897761, AA029912, AW088307, AA059231, AA883186, N72988, Z40302, W03289, H82082, W57671, H61166, AW264318, F01458, AI270229, AI932770, AW070350, F04303, AI318375, H93492, AI304462, AI304550, AI270299, R93209, AW369598, and R07861.
HMWHM3 0	3654	851334	1 - 342	15 - 356	AP000333, and AP000173.
HMWHM3 0	3655	678166	1 - 323	15 - 337	R19936, AI653255, AI261658, W78776, T85433, AA309754, H16895, AA132626, AA216686, AI636091, AA160797, AA312101, T69055, T35768, and AI347190.
HMWHM3 0	3656	724431	1 - 496	15 - 510	AL031685.
HMWHM3 0	3657	424132	1 - 342	15 - 356	AC006427.
HMWHM3 0	3658	964707	1 - 441	15 - 455	AA011418, AI264860, and AA699615.
HMWHM3 0	3659	791275	1 - 771	15 - 785	AA056297, H86332, H81699, AA021646, AA828136, AA252828, AW366161, AW366143, AW366126, AW366153, AW366129, and AB032976.
HMWHM3 0	3660	681845	1 - 300	15 - 314	
HMWHM3 0	3661	653198	1 - 364	15 - 378	AW236288, AF045555, and AC005081.
HMWHM3 0	3662	746475	1 - 680	15 - 694	AB011167.
HMWHM3 0	3663	793450	1 - 422	15 - 436	AI160190, AA226732, AA232883, AA232882, AA948725, AI079958, AA767922, AI467979, W39443, U83194, and AF121856.
HMWHM3 0	3664	917690	1 - 437	15 - 451	AA203110, AA465513, T96285, AI682937, and AA337698.
HMWHM3 0	3665	795649	1 - 364	15 - 378	AC004913.
HMWHM3 0	3666	670972	1 - 201	15 - 215	AA939053.
HMWHM3 0	3667	924227	1 - 283	15 - 297	AB011085.
HMWHM3 0	3668	668700	1 - 342	15 - 356	T24065.
HMWHM3 0	3669	688926	1 - 393	15 - 407	AA300776, AA341396, AI225022, and AF030428.
HMWHM3 0	3670	964705	1 - 339	15 - 353	
HMWHM3 0	3671	918724	1 - 509	15 - 523	AA102161, T68018, N86357, and AF144757.
HMWHM3 0	3672	757807	1 - 211	15 - 225	
HMWHM3 0	3673	964494	1 - 60	15 - 74	N24413, and AA325761.
HMWHM3 0	3674	959267	1 - 213	15 - 227	R16911, AI023774, AC005509, AL135960, and AJ131016.
HMWHM3 0	3675	670501	1 - 212	15 - 226	AI766637.
HMWHM3 0	3676	733331	1 - 42	15 - 56	
HMWHM3 0	3677	714384	1 - 122	15 - 136	AI908994, AI908999, AI909070, AI909069, N34111, AI908998, AA365524, AA143042,

						AI908987, AA365526, AI909065, H69944, AI909066, AI908986, W37554, AA291887, AI909072, AL049386, and AL133036.
HMXAB69	3678	661849	1 - 136	15 - 150		
HMXAC70	3679	964492	1 - 138	15 - 152		AL024509.
HMXAC83	3680	780385	1 - 105	15 - 119		M85519, and AC005625.
HNEAB76	3681	674781	1 - 242	15 - 256		AC004620.
HNEAC51	3682	523767	1 - 422	15 - 436		AA701643, and AI033306.
HNEAJ21	3683	671370	1 - 341	15 - 355		
HNEAJ57	3684	735083	1 - 341	15 - 355		AW000777, and AL031005.
HNEAK41	3685	711557	1 - 227	15 - 241		
HNEAN61	3686	507302	1 - 200	15 - 214		
HNEAN85	3687	524222	1 - 384	15 - 398		AI709236, AI219619, F18454, and AC005531.
HNEBI66	3688	529168	1 - 249	15 - 263		
HNEBJ08	3689	958742	1 - 899	15 - 913		AI914747, AI371165, AI149061, AI869786, AI537814, AI111171, AC002302, AC005666, AL109798, AC004841, AC004938, AC004217, AL020997, AC004383, AF001549, AL035460, AC007216, AP000501, AC005529, AP000505, Y14768, AC004159, U62293, AL022165, U63721, Z95115, Z97630, AL049631, Z85996, Z84469, AC009516, AC000353, AC005057, AL133485, AC004634, Z84466, AC005911, AF129756, AP000049, AC007686, AC004817, AC004887, AC005332, AC006211, AP000311, U91323, AL049569, AC007057, AC005531, AC002115, AC002301, U95742, Z95152, AC005520, AC004491, AC000026, AC005355, AC004230, AL023807, AL034548, Z73359, AL031311, AP000689, AL031657, AC002059, Z95116, AC008044, AC007993, AP001065, AC004876, AC005581, AC005102, AL022721, AC005071, AC008018, AC005765, AF121781, AC005781, AL035414, AP000215, AL022326, Z97056, AP000350, AL035685, AC004985, Z97053, AC005871, AC004000, L78810, AC005005, AC006101, AC005803, AL049699, AL022163, AB003151, AC004765, AC002425, AL109984, AC004020, Z98051, AC009247, AC005585, AL035659, AL096763, AC004966, AC004685, AL049872, AC008372, AC004750, L44140, AC005527, D87675, AC007384, AC002430, AC002544, AP001052, AC002369, AC004832, AP000039, AP000107, AC005280, AL022323, AC002073, AC006450, AL133163, Z99128, AL031650, AC005620, AL023575, AC004228, AC004991, Z98750, AC006538, AP000047, AL096791, AL021393, AC002299, AC005722, AL132987, AC005815, AC005037, AF107885, AP000498, AC003982, AC005200, AC005777, AC007421, AC005261, AC005086, AC004656, AL034417, AC002477, AC006057, AL049856, AL008721, AC002551, L78833, and AC005952.
HNEBJ35	3690	529576	1 - 303	15 - 317		
HNEBJ48	3691	919274	1 - 515	15 - 529		
HNEBM07	3692	954173	1 - 637	15 - 651		

HNEBY19	3693	527894	1 - 341	15 - 355	
HNEBY26	3694	527891	1 - 318	15 - 332	
HNEBY30	3695	523571	1 - 316	15 - 330	AA047509, AA649294, AA743885, and AA714682.
HNEBY32	3696	527889	1 - 392	15 - 406	AI902200.
HNEBY34	3697	507211	1 - 483	15 - 497	
HNEBY44	3698	773793	1 - 422	15 - 436	
HNEBY46	3699	527887	1 - 395	15 - 409	AC006006.
HNEBY48	3700	527895	1 - 308	15 - 322	AL021977.
HNEBY71	3701	527883	1 - 245	15 - 259	
HNECD65	3702	861062	1 - 511	15 - 525	
HNECE07	3703	954094	1 - 370	15 - 384	AI017707, AI733633, and AC006001.
HNECE14	3704	927590	1 - 94	15 - 108	
HNECF59	3705	507208	1 - 102	15 - 116	
HNECF76	3706	506532	1 - 326	15 - 340	
HNECI57	3707	529873	1 - 165	15 - 179	
HNECK47	3708	720588	1 - 331	15 - 345	
HNECK66	3709	932501	1 - 374	15 - 388	
HNECK67	3710	527100	1 - 398	15 - 412	AC002073.
HNECK83	3711	935045	1 - 684	15 - 698	AA836909.
HNECL71	3712	527810	1 - 221	15 - 235	
HNECM64	3713	861031	1 - 289	15 - 303	TT9573, AA525832, AA381390, AI207738, AA503018, AL039801, T79503, AA601713, AI862790, AA319995, AA856945, AA381962, AI434365, H23540, AA223512, AA297145, AA629852, AA765678, AA487892, AA829576, Z84487, AL050348, AJ229041, AL136295, AL133312, AC002302, AL022336, AC004638, AC004098, AC005005, AC004910, AC005030, Z93016, AC004526, AC003003, AL031680, AC002389, AC005037, AC002378, AC007226, AC006160, AL031668, AL121655, AL008583, AL031602, AL035071, AL121658, AC002390, AC000159, AC005378, U73023, AC002350, AP000511, AC000403, AC001231, AL121653, AC004882, AL050307, AB023051, U47924, AL009181, AC005212, Z82208, AF196969, AC005102, AC006509, AC007537, AC004212, AC006064, AF015720, AC006512, AP000512, AC004922, AL031281, U52112, AL022396, AL031230, AC007159, AC005859, AL034553, AC007308, AC005874, AF134471, AC004865, AC002470, AC007283, AC002544, AC004985, AC000113, AC006030, AC005529, AC012083, L48038, AC005225, AC007731, AC005500, AL031432, AC007868, AC007690, AC005332, AC005089, AL024507, AC006449, AP000504, AF129756, AC004382, AC005344, AL022238, AC004448, AC005399, AC006065, AC002375, AC006262, AD000812, U91326, AD001527, AF111168, AB003151, AC006581, AC004491, AL049636, AC004694, AC006084, Z73417, AC005881, AC011311, U80017, AC005386,

HNECO69	3714	861068	1 - 154	15 - 168	AF091512, AC006059, AC004148, AC003982, AL024498, Z83844, AJ003147, AC000026, AL008719, Z93023, AC005912, AL096701, AC005071, Z68164, AC007276, AC006088, AL008715, AC005244, AL022476, AL049869, and AL049712.
HNECR93	3715	529868	1 - 287	15 - 301	AC004974.
HNECS77	3716	527511	1 - 487	15 - 501	AI907658, and AW176803.
HNECT70	3717	958356	1 - 289	15 - 303	
HNECV31	3718	466977	1 - 290	15 - 304	
HNECV66	3719	575633	1 - 322	15 - 336	
HNECW09	3720	968378	1 - 482	15 - 496	
HNECW20	3721	527508	1 - 493	15 - 507	AC004034, and AC004235.
HNECW35	3722	855430	1 - 409	15 - 423	AC008928.
HNECX77	3723	507305	1 - 350	15 - 364	AW407366, and AA278963.
HNEDD27	3724	527589	1 - 377	15 - 391	W60940, AF019563, and AD000833.
HNEDD80	3725	507186	1 - 399	15 - 413	AC004797.
HNEDD90	3726	789187	1 - 351	15 - 365	AI692616, AL080276, AC004829, AL021921, and U95738.
HNEDE48	3727	721895	1 - 265	15 - 279	
HNEDE59	3728	527060	1 - 264	15 - 278	
HNEDF71	3729	572390	1 - 120	15 - 134	
HNEDG11	3730	967643	1 - 243	15 - 257	AD000864.
HNEDG35	3731	790570	1 - 540	15 - 554	
HNEDG56	3732	746708	1 - 325	15 - 339	
HNEDH54	3733	527505	1 - 318	15 - 332	
HNEDH96	3734	697747	1 - 678	15 - 692	
HNEDI80	3735	573138	1 - 353	15 - 367	AC005306.
HNEDK04	3736	923910	1 - 139	15 - 153	AA299540, AC000159, and AB007864.
HNEDK16	3737	702570	1 - 433	15 - 447	AA299540, AW363833, AC000159, and AB007864.
HNEDK22	3738	527503	1 - 365	15 - 379	
HNEDK74	3739	765880	1 - 225	15 - 239	
HNEDN42	3740	527499	1 - 179	15 - 193	AC005222.
HNEDO95	3741	573136	1 - 258	15 - 272	
HNEDQ51	3742	527816	1 - 321	15 - 335	
HNEDQ68	3743	586485	1 - 1038	15 - 1052	AA525825, AA868356, AW105002, and AW022273.
HNEDR48	3744	683470	1 - 153	15 - 167	
HNEDS03	3745	925091	1 - 113	15 - 127	
HNEDS18	3746	954586	1 - 140	15 - 154	

HNEDS29	3747	703032	1 - 221	15 - 235	
HNEDU01	3748	909832	1 - 403	15 - 417	
HNEEA41	3749	868102	1 - 264	15 - 278	
HNEEB62	3750	573185	1 - 441	15 - 455	
HNEEB84	3751	781940	1 - 211	15 - 225	AL133037.
HNEEC81	3752	844318	1 - 352	15 - 366	AL031729.
HNED12	3753	893698	1 - 583	15 - 597	<p>AI284640, AI246796, AI133164, AI434695, AI564185, AI431303, AL119984, AI334443, AI286356, AI053672, AI471481, AI754955, AW408717, AA720702, AA488746, AA491814, AI587583, AI587565, AA602557, AL119691, AI300167, AL041706, AW162049, AW301350, AI929531, AI499938, AI281881, AW303196, AW440299, AW274349, AL079645, AI537955, AI569086, AL041146, AI919265, AI037897, AA171941, AI753037, AI064864, W79504, AI366902, AW008317, AI064729, AA680243, AI192631, AL038842, AA177061, AI371070, AL046898, AA713815, AI633025, AL138455, AW419262, AA579063, AI282336, C75026, AW021583, F36273, AA587256, AI446464, AA502155, AI761471, AI732120, AA632648, AA226153, AI674873, AI469172, AI148277, AI339850, AW270270, AW238278, AI251021, AI334435, AF150152, AI962050, AI143242, AA758934, C75034, AI707788, AI610159, AA507547, AW022379, AW168342, AA362573, AL138265, AI679782, AW272758, AI871722, C06303, AW023270, AA610491, AI432270, AL048925, AW162489, AI919029, AW079135, AL120687, AA714453, AA559290, AI567674, AI079910, AI270476, AA581903, AW007759, AL038474, AI120959, AW273218, AA386111, AA302963, M77858, AI434311, AL045053, AI830390, AA177063, AI801701, AI654525, AL039958, AI928898, AI110760, AI754653, AA708678, AW073470, AA631507, AL046205, AA569387, AI358571, AI367975, AI473943, AC005994, AC005393, AC009516, AC005940, AC005358, AC006263, AC007227, AL031311, AC005529, AC006277, AC006241, I44140, AC003003, AC005666, AC004491, AC007999, AL135744, AL033392, AP000961, AC005231, AC005778, AC006536, AL133448, AP000501, AL132994, AC005799, AL022323, AL035494, AL008721, AP000152, AL049843, AF196779, AL008718, D84394, AC004472, AC005105, AC006088, AC002429, AL132777, AC004596, AC005046, AC008039, AC005701, AF196969, AL117258, AL008582, AC004992, AL023581, AC005695, AC004492, AC005387, AC002126, AC005154, AC005971, AF067844, AC002996, AC006285, AL096707, AP000049, AC005562, AC003681, AC005740, AL031770, AC002404, AL049539, AP000311, AC005839, AL080274, AC002312, AL049776, AL021391, AC005180, AF001550, AC005914, AC000047, AL022322, AL021453, AL031597, AC005696, AC008125, AL132987, AC004158, AP000555, AC005244, AL109628, AC016025, AC006449, AC005212, AC004650, AC003101, AC007066, AL031650, Z69666, AC004386, Z97054, AC002425, AL031668, AC006017, AC020663, AP000509, AC004825, AC006048, AC008044, AC006120, AC004690, AC005531, AC005828, AC003085, AC006138, AC004263, AL031848, AC008055, AC004253, U85195, U91326, AL133512, AC006128, AC004652, AC005412, AC007649,</p>

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HNEED48	3754	668747	1 - 563	15 - 577	W26285, H51850, R00469, and AC004782.
HNFAA13	3755	667712	1 - 460	15 - 474	
HNFAA80	3756	781578	1 - 398	15 - 412	
HNFAA83	3757	530295	1 - 299	15 - 313	
HNFAAD95	3758	784714	1 - 726	15 - 740	H83668, H85578, AA054359, H86619, AA013002, and Z82244.
HNFAE07	3759	861069	1 - 347	15 - 361	
HNFAF40	3760	861021	1 - 305	15 - 319	
HNFAF69	3761	530349	1 - 163	15 - 177	
HNFAH45	3762	662053	1 - 370	15 - 384	
HNFB51	3763	530064	1 - 206	15 - 220	
HNFBT11	3764	967784	1 - 218	15 - 232	C05828, AW363343, C05733, W48575, AA581240, AL299442, AL871940, AA121886, AL869406, AL133355, AL133609, AA360082, AL015119, N32218, AA669165, AL282488, AA209438, AL611960, AL583255, AL886467, AA883595, C05928, AA601356, AC006057, AC005318, AC008015, AL133243, AL096703, AC005179, AC005666, AC007919, AC007066, AL049697, AC002044, AC007016, AC002094, AC007385, AC007051, AC007395, AP000306, AC004019, AC005622, AL035067, AC005484, AC005291, AC004963, AF217403, AD000812, AC002126, AC005251, AC002357, AL034548, AC006571, AC004755, Z97876, AL031123, Z84488, AL117339, AC004447, AC008372, AC002565, AP000047, AC004659, AC006011, AC005409, AC005412, AC006479, AC004049, AP000557, AC005838, U91328, U95742, AP000115, AC005003, AL049749, AC005231, AL035405, AC009399, AC003071, AC003072, AL109952, AC004913, AC004655, AF047825, AC005358, AC007308, AC004382, AL031075, AL031120,

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HNFBUS3	3765	861015	1 - 347		15 - 361	
HNFCI32	3766	699706	1 - 124		15 - 138	
HNFCI41	3767	861014	1 - 723		15 - 737	AC004126.
HNFCI77	3768	761390	1 - 428		15 - 442	F15202, AA297666, AA621381, AA715814, A1244157, AC002468, AJ006997, AC004099, AC007774, AL024507, AL034417, AL049829, AP000194, AC005844, AC006241, AL133245, AC004953, AL133246, AC005730, AC004019, AL121652, AC006387, AC007934, AC006441, U85195, Z98304, AE000658, AL133244, AC002456, AL139054, AL022323, AL035420, AP000116, AC000052, AC004531, AC004967, AC005231, AL020997, AC005668, AC002365, AP000313, U91326, Z83844, AP000117, AC007055, AP000050, AL096701, AC004453, AC004209, AL109984, AC007227, AC005037, AL031228, AC006371, AC004383, AL031186, AP000689, AC004626, U91323, AF134726, AC005264, U96629, AB003151, AF196779, Z82198, AC005914, AC004686, and AP000501.
HNFCI68	3769	585328	1 - 108		15 - 122	AL022098.
HNFCI04	3770	927836	1 - 405		15 - 419	AA743885, AA714682, AA748749, AA047509, AA969497, and AA649294.
HNFCI27	3771	529964	1 - 397		15 - 411	AL079300.
HNFCI67	3772	927833	1 - 217		15 - 231	
HNFCW14	3773	955293	1 - 367		15 - 381	AC002091.
HNFCY33	3774	861005	1 - 485		15 - 499	
HNFCI21	3775	529867	1 - 298		15 - 312	
HNFCI91	3776	496241	1 - 503		15 - 517	
HNFDJ17	3777	960239	1 - 451		15 - 465	H67844, and AL031282.
HNFDK40	3778	854017	1 - 475		15 - 489	AC006441.
HNFDN04	3779	537317	1 - 450		15 - 464	N24949, and N21519.
HNFDN41	3780	712571	1 - 375		15 - 389	Z98884.
HNFDN89	3781	787085	1 - 173		15 - 187	AC006285, AC007845, and AC016025.
HNFD081	3782	537341	1 - 256		15 - 270	
HNFD084	3783	575347	1 - 425		15 - 439	AA651846, AA287087, AC007193, AL008721, AC007228, and AC007283.
HNFD099	3784	719215	1 - 374		15 - 388	AC007308, AP000557, AP000556, and AC004983.
HNFD35	3785	527500	1 - 208		15 - 222	AL008729.
HNFD83	3786	537343	1 - 264		15 - 278	
HNFDV41	3787	537337	1 - 407		15 - 421	

HNFE22	3788	537334	1 - 103	15 - 117	
HNFE43	3789	583458	1 - 703	15 - 717	AI692459, AW025274, AI912748, AI625788, AW135287, AI268722, AW137005, AI983277, AW235753, AD000864, and AC002133.
HNFE43	3790	424792	1 - 331	15 - 345	AA248418, AA009955, R98152, AA031428, AA592915, AI732656, AI904111, AC002485, AC004897, AL021786, AC004935, AC004015, AC003682, AL035089, AC006145, AC008168, AC005533, AC008014, AC002357, AL049613, Z68331, AP000403, AL031782, AL035424, AL049734, and AC005378.
HNFE83	3791	850982	1 - 502	15 - 516	
HNFE95	3792	971171	1 - 814	15 - 828	
HNFE09	3793	526641	1 - 265	15 - 279	
HNFE31	3794	934595	1 - 384	15 - 398	AA490873.
HNFE12	3795	825406	1 - 134	15 - 148	AF196970, and AF115549.
HNFE12	3796	518245	1 - 95	15 - 109	
HNFEK33	3797	957396	1 - 516	15 - 530	
HNFE76	3798	860967	1 - 426	15 - 440	AW340916, AA766845, L81825, and AC004749.
HNFE86	3799	537336	1 - 234	15 - 248	
HNFE20	3800	669916	1 - 463	15 - 477	
HNFE061	3801	530355	1 - 232	15 - 246	AA777291, AI476328, AC004409, AC004825, AC004081, Z98742, AC004207, AP000515, and AB014083.
HNFER89	3802	787086	1 - 361	15 - 375	
HNFE544	3803	860920	1 - 350	15 - 364	
HNFEU62	3804	574398	1 - 74	15 - 88	AC004914.
HNFEV41	3805	575549	1 - 207	15 - 221	AI954737.
HNFEV66	3806	575552	1 - 99	15 - 113	
HNFFB21	3807	671263	1 - 425	15 - 439	
HNFFC21	3808	574693	1 - 401	15 - 415	
HNFFD88	3809	577422	1 - 331	15 - 345	
HNFFP81	3810	574678	1 - 55	15 - 69	
HNFFG79	3811	781693	1 - 178	15 - 192	
HNFFH03	3812	921923	1 - 461	15 - 475	R23542, H24230, R14460, Z42321, and H24229.
HNFFH04	3813	574679	1 - 266	15 - 280	
HNFFJ48	3814	860311	1 - 379	15 - 393	AL043721, F24284, AL043756, AI561335, AI880168, AI697353, AA715270, W25284, AI865905, AI120008, T62712, AW169397, AL133723, AI914706, AA669416, AW238278, AI305547, AI307201, T11542, AA548137, AI473090, R65801, AI371070, AI138344, AW055226, AW088846, AA019707, AW238016, AI205181, AL118991, AA669961, AI082510, AI291823, AI312790, AI039809, AI336054, AI689385, AI355587, AA580662, AW327961, AW327960,

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				15 - 208	AC007283.
HNFFK15	3815	920748	1 - 194	15 - 208	
HNFFK36	3816	529978	1 - 303	15 - 317	
HNFFK61	3817	740644	1 - 351	15 - 365	AA489127, AA279641, AC004883, AF184614, U57835, U61240, U61244, U60972, Z95331, AC005529, AC006026, AL008726, AL031985, AC000353, AC004876, AC005082, AL023882, U85195, and AC005527.
HNFFM25	3818	705856	1 - 798	15 - 812	AA100734, H70404, AI807620, AW170393, AI148673, AI700503, AI951537, AI372906, AI978898, AI355972, AA577153, AA683135, AI418406, AW027328, AA804574, AI149104, AA040055, AI375779, AW083779, AA948638, AA922646, AI421626, AI086894, H41004, W67241, R80971, H45696, AA454614, AI336304, R50491, R70331, H04863, H48164, H50348, R71660, AA350063, H14248, AI000283, AA158079, AI873952, AA935502, H04767, AA488228, R71772, AI185581, H03390, AW085023, AA953342, N30114, AA330664, AA350336, T47929, R71761, AA350333, AA380748, R80075, AA350335, AA558800, AI498026, H52808, AW247533.

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HNFFO61	3819	742049	1 - 329	15 - 343		AI631960.
HNFFO76	3820	727306	1 - 323	15 - 337		AA659360, AA689255, AA862243, AW338370, AA773162, AL120343, AA167792, AA833896, AA833875, AA404263, AA503119, AA594072, AI910608, AI950671, AA568494, AI174535, AW002777, AA608612, AI733856, AA828062, F15883, AI754653, AW082076, AA129219, AA608588, AI114827, AA251356, AI581486, AA631933, AW070703, AI601229, AA355083, AI300167, AI306232, AA480792, N71033, AW118304, AA188664, AA847096, AL120227, AA826302, N33867, AW402688, AI500453, AI537041, AA678565, AA635368, AI362415, AI364809, AL134608, AA613624, AA338167, AA492105, AA984114, AA811208, N84446, AA640410, AA640430, AA358515, AI245679, AI054354, AA489766, AA613954, AW167374, AA522642, AI924855, AI499954, AI865196, W03818, AA689285, AI583466, AI251576, AL038971, AA843779, R08918, AW274191, R44855, AW150476, AA421078, AI499588, AA054055, AI708005, AA346458, AW195988, AL134519, AA581247, F28352, H67863, AW001268, AA808186, AI469599, AA354259, AI088162, AI536625, AI223700, AW265244, AA654661, AA133332, AI745335, AI357551, AW265009, AI597580, AA745373, AA503298, AA594043, AI610737, AL042927, AA780784, AA071393, AA677671, AI040051, AI188390, AI282793, T07769, AL041894, AA904211, H18914, AA972809, AA984171, AA340602, AI270370, AA679194, N22037, AI253382, AW265186, AL042225, AL135352, AI978718, AI054414, AI914879, AC002331, Z92542, AC004020, AL035685, AC005722, AL021154, AL133445, AC005520, AC007546, AC004216, AL031734, AC005701, AC005510, AL079305, AC002558, AC005071, Z85996, AC009721, AC005670, AL034376, AF001548, AC004976, AC004253, AC007590, AC007746, AC009509, Z78421, AB026898, AL035106, Z98886, AC005747, AL079333, Z82198, Z85987, AC003101, Z97353, AC004000, AL035652, AC005279, AC005751, AC005317, AP000260, AL034375, Z98941, AL049760, AL109754, AL035448, AL035400, AL049691, AP000499, AC005091, AL008709, AC007278, Z82195, D83729, Z99756, AP000099, AL024508, AF015262, AC002070, AJ229043, AC007879, AP000146, AC002351, AL035694, AL034371, AC006549, AC006960, AL031280, AP000036, AC006925, AC007695, AC006241, AF130248, AL035658, AL031294, AC007159, AC005192, AL031055, AL021528, AC007221, AC003664, AC005668, L78810, AL009029, AC010206, AC006571, AL049759, AP001051, AC004912, Z97196, AL022324, AC003667, AC005026, AC006043, AC008119, Z97192, AC004884, AC005296, AC006315, AC010077, AL035251, AC009225, AC007514,
HNFFO05	3821	860851	1 - 406	15 - 420		

					AC005873, AL035587, AL023653, AC004125, AC006080, AL008712, AL049773, Z75741, AC008125, AL049712, AL034400, AL078584, AC004099, AC005029, AC006333, AC004865, AC007682, AL022394, AC007738, U91319, AC003958, AF111167, AL049792, AC007277, AL031117, AC005796, AC004673, AL031673, D16583, AL022334, AC005291, AC005377, AL079301, AC002302, AL133500, AC003086, AL022159, AC007540, AC008041, AL229042, AL031778, AC007664, AC002551, AC006560, AP000469, AC018767, AC003663, AC004526, AC007240, AC003689, AC007559, AC008040, AL022312, AL031665, AC006126, AC007774, AL049829, AL008720, AC005900, AC007773, AL132800, AC002054, AC002472, AL050326, AL080245, AB020866, AC006977, Z98749, AL022337, AL050333, AC006132, AL031666, AC006531, Z95114, AC002407, AL031293, AC004538, AL031595, AC006984, AC005363, AP000503, AF134726, AC005215, AF002223, AC005099, AC004106, AC002460, AL121578, AP000069, AP000502, AL133244, AC006020, AC005746, AC008101, AC006384, AL031466, AC005243, AC006088, AC010200, AC005224, AC006972, AL023882, AC016830, AC004810, Z95115, AL035690, AC007539, AF048729, AL031277, AL133247, AC005041, AC006323, AL035425, AC007649, AC004953, AP000076, AC000088, AC000082, AC000071, AC004905, AC005725, AL079303, AC005018, AC003969, Z98949, AL135744, AP000032, and AC005412.
HNFVR46	3822	574618	1 - 149	15 - 163	
HNFVS14	3823	558192	1 - 296	15 - 310	M89651.
HNFVS23	3824	574677	1 - 300	15 - 314	AC004782.
HNFVS46	3825	574669	1 - 294	15 - 308	AL078644.
HNFVS96	3826	860904	1 - 88	15 - 102	
HNFVT30	3827	574616	1 - 425	15 - 439	
HNFVT62	3828	574623	1 - 390	15 - 404	AA345805, AB007864, and AC000159.
HNFVT71	3829	574617	1 - 445	15 - 459	
HNFVT83	3830	506711	1 - 445	15 - 459	Z82215.
HNFVVO5	3831	932364	1 - 362	15 - 376	AA689285, AL1732151, AW068996, AW069783, AA228824, AA297802, AL031291, AL121825, AL022237, AC002527, AC004985, AC005544, AC005102, AL050318, Z97200, AC007676, AC002456, AC004927, AC007617, AC005291, AL022320, AC005781, AC002994, AC007878, U91326, AF109907, Z95116, D87675, AC004752, AC004099, AC002558, AC005365, AC005874, AF134471, AC002425, AC004106, AC004832, AC004673, AC004797, AL117258, AL035079, AC007388, AC006480, AL080317, AC006088, Z84466, AL031846, AP000694, AC016027, AL031311, AC016830, AC006312, AL035587, Z93020, AL021155, AC008079, AC006538, AC004820, AC008018, AL034379, AL133246, AL031657, AC005332, AC002465, AC006449, AC004814, AC004876, AC005971, and AC005520.
HNFV66	3832	574153	1 - 309	15 - 323	
HNFV73	3833	574143	1 - 347	15 - 361	

HNFFX21	3834	574217	1 - 393	15 - 407	AA632593, AA612727, A1801505, AA838091, W02419, AA584862, A1049845, A1871687, AA947352, AA610255, AL121287, AA857812, R79255, AA829036, N95156, A1282629, A1243789, A1870453, AW070532, AA93789, AA054156, W02749, A1285493, AA558748, AA715173, AA715075, A1216990, AA225406, AW272294, AA715955, F15374, AA302690, A1587467, AW023111, R93919, AC002430, AC007384, AC005484, AC004477, AF196779, AC006581, AC005920, AL109628, AC005722, AF001550, AF129756, AC004000, AC005694, AC004263, AP000034, AL049869, Y18000, AC005527, AC003119, Z95115, AC005071, AC004955, AC005529, Z98749, AC007934, AC007546, AC006026, Z82190, AL133382, AL109827, AL133246, Z97832, AP000501, AC005317, AC005412, AL050318, AL109758, AL133312, AC003108, AL024498, AC006992, AC005338, AF111167, AC005237, AC002310, AC004878, AC002996, AC005988, AC002470, AP000131, AP000209, AL031291, AL022336, AC007225, AC004517, AC004232, AC004953, AC004148, AC005231, AC002301, AC006946, AC004890, AC006121, AP000248, L78810, AL139054, AC008154, AC006449, AL109627, AC006071, AC003046, AC004216, AC006430, AC005821, AF109907, Z83840, AC005049, AP000552, AC005736, AC008372, AF207550, AC005746, X54486, Z98200, AC005740, AL033521, Z98884, AC004230, AL008725, AC007450, AP000505, AF030453, AC007114, AC006001, AP000703, AL020993, AL035413, AC005088, AL009181, AC005225, AL024474, AC005690, AC005971, Z97053, AC000025, AC006208, AL009179, AC007371, AL034553, U89335, AC007024, AC005695, AC004242, AC007690, AC004996, AC005316, AC004973, AL031767, AF124523, AC007664, AC002565, AC007421, AC003004, AL050334, AC004832, AL109952, AC007283, AC007537, AL031311, AC020663, AL023553, AC006017, AL049843, AC004099, AF047825, AL035405, AC002551, AC006511, AC006312, AF141309, AC004139, AC004383, AC005702, AL031431, AC004686, AC005921, AL080317, Y14768, AC005519, AL031665, Z84469, AC002302, AB023050, AC005377, AC004131, AL021391, AL049795, Z99291, AL031680, AF200465, AC005037, AL133353, AC004236, AP000101, AC003029, AC005841, AC006211, Z97054, AC009275, AC007227, AL135744, Z82243, AC004802, AL022069, AC002553, AF196969, AC006141, AC007686, AC006515, AL078639, AC005004, Z95114, AC005089, AF031078, AL031664, X54156, U94788, AL049229, AC007899, AC006057, AC010170, AL035249, AC003982, AC007011, Z68273, AC004757, AC007237, AL020997, AP000511, AF030876, AJ009610, AL049631, AL031597, AC005768, AL117694, AL035443, AL031005, U91323, Z98304, AP000116, AC009294, AL049776, AL023879, AC002350, U62293, AC005057, AC016025, Z98050, AL035527, AL031729, Z83844, AC007021, AL035685, AL021997, and Z75407.
HNFFX55	3835	574218	1 - 447	15 - 461	Z85996.
HNFFX79	3836	574152	1 - 358	15 - 372	AC005610.
HNFFZ53	3837	526845	1 - 431	15 - 445	
HNFFZ89	3838	913701	1 - 987	15 - 1001	AA442241.

HNFFZ91	3839	860897	1 - 758	15 - 772	AA856866, AI921765, AA636077, AA828619, AL038842, AA807704, AI049999, AA720732, AA297776, AW243793, AA632765, AA515728, AL079734, AI039257, AW327624, AA773171, AA878431, AI306232, AI251576, AA502991, AI732151, AI282253, AI583466, AA181917, AI433952, AI090377, AI357823, AA101744, AA832175, AI336771, AI285493, AI801505, AA729004, AA284247, AI133448, AI121655, Z84474, AC005786, AC007371, AP000556, AC002984, AC005602, Z83822, AC005512, AF196779, AL035464, AF207550, AP000557, AC005303, AC005209, AC003041, AC004148, L44140, AC005003, AC002365, AC004703, AL035079, AC005972, AC004921, AC006441, AC005412, Z68331, AC004067, AC005529, AC005015, Z83840, X57103, AL078611, AP000030, AL049611, AC005527, Z83844, AI035414, AC005619, AL109628, AC007688, AP000692, AL024498, AC009247, AL139054, AC005519, AL034420, AL020997, Z99127, AC000387, AC002558, AC006057, AC006312, AL109984, AC004263, U91326, AC005089, AL050318, AC006101, AL133246, Z97054, AC003103, AC004816, AL031005, AC004616, X55448, U78027, AC006538, AC005004, AC007686, AC005180, AC007461, AC007226, AL022320, AL022315, AC006512, AP000049, AL096701, Z99716, AL078476, AL020995, AC006064, AC004678, AC005182, AL050321, AL031587, AC000025, AL024507, AC007421, AL080243, AC002366, AL049839, AC005369, AC006211, AC004967, AC006360, U91327, AL035422, AF205588, AC005971, AP000311, AC008044, AC004383, AC002544, Z95113, AL132712, AF109907, AC005914, AC007690, AC008372, AL022721, AC004034, AF165926, AC005358, Z83845, AC004812, AC009516, AC006285, AC005065, AC004643, AL121652, AP000114, AP000046, AC000353, AP000549, U62317, AC006208, AC004797, AL031003, AJ006345, AC016830, AC004673, AC007664, AC004257, AC004821, AC002483, AC007263, AC006474, AL049757, AC016025, U47924, AL022316, AC007510, AC004584, AC005666, AL121603, Z98051, Z84480, AL049795, AC004876, AL031121, AC002472, AC004887, AC005071, AC007384, AL021808, AC006261, AC007051, AC008039, AL031276, AC005684, AL049694, AF030876, AC006487, AF107885, AC004955, AC005355, AC006273, AC006088, AL096703, AC004883, AF053356, AL031657, AC004386, AC005011, AL031722, AF217403, AL117330, U91323, AL020993, AC005822, AL031846, AC005695, AC005231, AL031346, AC006241, Z98200, AC007227, AC004854, AC005920, AC002094, AC006166, AC004150, AC002310, AC005778, AP000552, AP000065, Z86090, AB001523, AL034429, AL031680, AC003108, AC004033, AL034548, U80017, AP000355, AC005482, AC005183, AC003010, AL122020, AL021939, AC006084, AC005037, U96629, and U52112.
HNFGB37	3840	577342	1 - 292	15 - 306	Z95118.
HNFGC17	3841	860899	1 - 435	15 - 449	
HNFGC46	3842	967538	1 - 309	15 - 323	AA639859.
HNFGC53	3843	860900	1 - 615	15 - 629	AA702690, AI570659, H58517, and AC005318.
HNFGC57	3844	782183	1 - 427	15 - 441	

HNFGC64	3845	851981	1 - 440	15 - 454	AC005776, T72851, AF184110, and AC006059. H95198, AW274228, AA135376, AA838709, AI031681, N51649, AI380604, U92072, AF118890, and AF118889. AA305489, AI970612, AI088792, AI129935, AW340706, AI445737, AW129405, AW029494, AI339728, AA431754, AA481465, N23212, AW072683, AA587221, AW273074, AA716154, AI624922, AW117722, AI582747, AA306890, AI362727, AW013971, AI636029, AI142386, AA477767, AA152108, AA230286, AA152033, AA812974, AA230236, AW002763, AI147376, AW054932, AW024764, AA233879, AA486843, AA873861, AF057026, and AF086624. AI012008, AP000504, AF129736, and AF109905. AA812141, AA487621, AA488746, AA299189, N32849, AW243793, AW270343, AA559241, AA290563, AA760808, N72524, AA454177, AA487475, AA570230, AI753488, AW102846, AW084466, AI079511, AI561060, AI049508, AW270300, AI137998, AA569471, AI366693, AI014843, AW070892, AA483223, AA101689, AA665021, AA302811, AA811710, N91070, AA491955, AL042420, AC004883, AL021707, AC002551, I01960, M11567, AL021307, AC005772, AL031905, AL035422, Z98047, AC004821, AC003108, AL096701, AC005412, AL022311, A63032, AL109847, AC006946, AF053477, AC003969, AC005065, AC000117, Z83826, AL121694, AL118523, AC005837, AL034379, Z95114, AC007205, AC007191, AL034344, AC006130, AP000127, AP000205, Z98036, AC004662, AC004099, AC004552, Z84469, AC004894, AL049647, AC003035, AC005387, Z98745, AC007436, AC005678, AC004228, Z79997, U07561, AL078611, AF045555, AL035687, Z97054, AC005081, AC006121, AC004771, AL031679, AP001052, AC007617, AC007270, AL121652, Y12855, AC002073, AF003529, AC008079, AL132642, AC004953, Z75746, Z84721, AC006985, AP000280, AC007033, AL023575, AC004752, AL109798, U78027, AP000039, AP000107, AC006465, AC002119, Z85987, AL035587, AL031276, AF064866, AC007324, AL049694, AL031577, AC008101, AC004253, AC004595, AC003074, AC004701, AL050318, AC004051, AC005482, AL031311, AC004984, AC005399, AC004020, Z97200, AC002350, Z95152, AC007637, AL080243, AL117693, Z98304, AC003965, AC004234, U93305, AL121653, AI121658, AF196779, AL022721, U96629, AL137572, AP000345, AC005365, U15177, AC007124, AL050324, AC003065, AC005033, AP000689, AC007666, AL009031, AL109753, AC002326, AC005803, AB003151, AL031283, and AP000501.
HNFGC64	3845	851981	1 - 440	15 - 454	
HNFGC16	3846	781720	1 - 303	15 - 317	
HNFGC36	3847	684992	1 - 566	15 - 580	
HNFGF83	3848	526843	1 - 349	15 - 363	
HNFGH24	3849	524419	1 - 328	15 - 342	
HNFGH71	3850	954601	1 - 404	15 - 418	
HNFGI01	3851	921431	1 - 660	15 - 674	
HNFGI49	3852	909707	1 - 285	15 - 299	15 - 262 15 - 297
HNFGI84	3853	783204	1 - 248	15 - 262	
HNFGI93	3854	526534	1 - 283	15 - 297	
HNFGK28	3855	574599	1 - 321	15 - 335	15 - 235
HNFGK29	3856	574593	1 - 221	15 - 235	

HNFGK39	3857	574592	1 - 225	15 - 239	AL031005.
HNFGI31	3858	420241	1 - 469	15 - 483	
HNFGI94	3859	709264	1 - 138	15 - 152	AC005071.
HNFGM40	3860	524398	1 - 357	15 - 371	AI758365, R25772, AI199589, AA905339, AW410939, AA101566, AI828038, AI743331, AW294803, AI990537, AI907224, AI990873, AI636883, AI907223, AA781736, and AI479878.
HNFGM61	3861	750800	1 - 294	15 - 308	AW239189, AW327701, AA206129, AL048272, AW239069, AA352871, AA310523, AA295649, AA481822, AW384995, AW384998, I193967, AA759007, R48716, AA434007, AW376413, H25589, T54238, R74215, H30574, AW404846, AF149291, and D21261.
HNFGM76	3862	908665	1 - 868	15 - 882	AI860139, AI738678, AW149459, AI394329, AI499859, AI879584, AI475610, AI094142, AI057183, AW051629, AW136472, AW293272, AI886866, AI825816, AA236872, AI189241, AA927552, AI084187, AW250159, R71853, AI523638, AF150628, and AF132599.
HNFGN36	3863	575567	1 - 635	15 - 649	AA085530, AA278791, and AI961765.
HNFGN60	3864	574588	1 - 322	15 - 336	Z59518.
HNFGP07	3865	953915	1 - 522	15 - 536	
HNFGP31	3866	574643	1 - 113	15 - 127	AI135009, and AF053630.
HNFGP64	3867	932413	1 - 719	15 - 733	AW117576, AA648940, AA814664, and AA749041.
HNFGQ23	3868	750597	1 - 370	15 - 384	AL035530.
HNFGQ58	3869	574583	1 - 300	15 - 314	
HNFGU56	3870	574587	1 - 353	15 - 367	
HNFGW96	3871	915309	1 - 753	15 - 767	H24136, R25934, Z45244, and AI214671.
HNFGX55	3872	795918	1 - 722	15 - 736	T89765, and T84142.
HNFGZ03	3873	924695	1 - 486	15 - 500	AI765111, and AC006953.
HNFHA11	3874	967520	1 - 436	15 - 450	
HNFHD40	3875	970875	1 - 468	15 - 482	
HNHFH18	3876	66827	1 - 300	15 - 314	
HNHFH32	3877	699518	1 - 310	15 - 324	
HNHFH33	3878	574146	1 - 397	15 - 411	
HNHFH53	3879	574148	1 - 338	15 - 352	AL034375, and AC002326.
HNFHG35	3880	574684	1 - 222	15 - 236	
HNFHH12	3881	968808	1 - 250	15 - 264	
HNFHH31	3882	574697	1 - 304	15 - 318	
HNFHH33	3883	574703	1 - 348	15 - 362	
HNFHH83	3884	523646	1 - 299	15 - 313	
HNFHH88	3885	521932	1 - 116	15 - 130	M62505, AC003007, and AC005632.
HNFHI17	3886	523569	1 - 214	15 - 228	
HNFHJ10	3887	964802	1 - 340	15 - 354	AC006953.

HNFK07	3888	953538	1 - 267	15 - 281	
HNFK46	3889	860844	1 - 433	15 - 447	
HNFK77	3890	576186	1 - 415	15 - 429	
HNFK85	3891	577324	1 - 420	15 - 434	
HNFM09	3892	657247	1 - 117	15 - 131	
HNFM47	3893	916624	1 - 875	15 - 889	AW151017, AI361481, AI660038, AA668973, H16074, AC002549, and AC003049.
					AI283842, AA928413, R85226, W16867, AI902392, T07285, N54179, AA808903, AA714028, AL133867, H50738, AA086360, T06699, H91188, AD000092, AC005778, AL050318, X65032, AC005089, AC005826, AC007537, AC006379, AL008631, AI.109865, AL035410, AL022302, AC007059, AL021808, AC003657, U78027, AL035422, AC006454, X14448, AF147433, AC008127, AC003688, AL031657, AL049757, AL031721, AC005921, AC005822, AF001552, AC011331, Z82189, AC005837, AC002476, AD000864, AC007421, AL109984, AL031780, AC004815, Z98941, AC005703, AL021407, AC003025, AC004814, AF047825, AC008040, AC012627, AC007880, AC004998, AC004228, AC005722, AL035587, Z98051, Z82976, AL023575, AL022324, L44140, AC004921, AC005568, ALJ21652, AC002364, AF139813, AC005828, AL121825, AP000702, AL035681, AP000703, AL034343, Z84466, L39062, Z84723, AC000097, Z99129, AC003043, AL096769, AC007842, AP000691, AC006547, and AC007201.
HNFM58	3894	674349	1 - 121	15 - 135	
HNFM60	3895	662643	1 - 74	15 - 88	
HNFM03	3896	860887	1 - 275	15 - 289	AA573693, AA313075, AA550850, AL047645, T54673, AA468356, AA608529, AW085621, AL037777, AA290802, R09127, AA744583, AI089968, AI088759, AW026427, AA808982, F23235, AA635413, N48297, AA253451, AA593092, AW268329, AA489797, R11510, AA372420, AI053568, AA009855, AI356986, AA284888, AA284638, AA290682, AA436404, AA454759, AI308598, T71936, AI888261, AL049830, AL023581, AC005411, AL034420, AL121653, AC002524, AF029308, AC004525, AC002303, AL139054, AL050317, AC006285, AL049569, AC004893, AC005094, AL031905, AC002492, AC005037, AC002364, AC005237, AC005666, AC005587, AC018359, AL133216, AL121757, AC005952, AC002128, AL035422, AL121825, AC006581, X04530, AC005684, Z99943, AC006271, AF024533, AF111168, AC002565, X58139, A1010770, AC005914, AL022400, AC006211, AC005920, AC004927, AF051976, AL049779, AL022320, AL121578, AC004651, AC006368, AC009247, AF030453, AP000500, AC006323, AC005193, AF165926, AL023553, AL035411, AL117356, AL133445, AB026899, AC006077, AC005880, Z97630, AC004106, AL096766, and AC006462.
HNFM01	3897	938114	1 - 401	15 - 415	AW228430, F12145, AI815981, and AA311733.
HNFM23	3898	921950	1 - 422	15 - 436	
HNFM32	3899	765827	1 - 424	15 - 438	
HNFM67	3900	576147	1 - 226	15 - 240	
HNFM70	3901	586494	1 - 331	15 - 345	AA299540, AC000159, and AB007864.

HNFS84	3902	725666	1 - 433	15 - 447	
HNFS85	3903	576118	1 - 299	15 - 313	
HNFSU20	3904	512927	1 - 743	15 - 757	M79201.
HNFSU27	3905	683506	1 - 320	15 - 334	AA281626, AA626747, AA744220, AW406447, AI281903, AA736472, AA652057, AA649642, AA598997, AA125788, AA095511, AW08058, AW074207, AA947370, AL042420, AI571512, T07324, AA553604, AI299694, AA836275, AA494163, AA151807, AA831388, AA338522, AW148507, AI281881, AC011311, AC006581, Z95329, AC004526, AL135744, AC004963, AL021707, AP000500, AC005303, AC002090, AF055066, AP001137, AF196971, AF067844, AC005703, Z99570, AC008179, AC004858, AL049869, AF130343, Z72522, AL021878, AF205588, AC004531, AC005994, I29074, AC007050, AC006026, AC006213, AL121603, AL133238, AF109907, AF053356, AL096701, Z69921, AC004991, AC016025, AC004647, AC006356, AC016026, AL034402, AC005971, AP000348, Z82184, AC006071, Z85986, AC000052, I044395, AP000552, AF087510, AC005531, AF049895, AL031584, AL033521, AC006285, AC004765, AB026899, AC007845, AC007066, AL121658, AC020663, AC005102, Z93023, U80017, AL031257, AC004041, AL121877, AL022323, AP000153, AP000012, L48473, Z83820, Z98048, AC006313, AL031589, AJ246003, AC003029, AC002310, AC004033, AF165926, U50429, AL035071, AL022322, AL049759, AC003684, AC006312, AC006064, AC002425, AP000556, AC007919, AL080243, and AL031431.
HNFSU85	3906	506309	1 - 364	15 - 378	AL138162, and AC004490.
HNFSU81	3907	766220	1 - 396	15 - 410	AA186965, R74512, Z42358, and A1904695.
HNFSW14	3908	939763	1 - 522	15 - 536	
HNFSW40	3909	577110	1 - 302	15 - 316	W21388, D89870, AC004152, and Z58159.
HNFSW70	3910	757261	1 - 303	15 - 317	AA228901, T89776, T71470, and Z83844.
HNFSW81	3911	577329	1 - 394	15 - 408	
HNFSX24	3912	934305	1 - 627	15 - 641	AA682722, AA579680, AA995482, and H60525.
HNFSX44	3913	716852	1 - 279	15 - 293	AF072099, and AC008984.
HNFSY29	3914	860879	1 - 569	15 - 583	
HNFTA33	3915	861010	1 - 280	15 - 294	AB017919.
HNFB47	3916	523438	1 - 305	15 - 319	AC007032.
HNFB67	3917	577326	1 - 111	15 - 125	
HNFTC22	3918	577442	1 - 345	15 - 359	AL031283.
HNFC43	3919	707264	1 - 371	15 - 385	AW276703, and AC005280.
HNFB18	3920	576032	1 - 212	15 - 226	AC005095.
HNFIG07	3921	918389	1 - 465	15 - 479	AC002091, AR026676, AC003695, Y10742, and AR026672.
HNFIH79	3922	576143	1 - 251	15 - 265	AI088952.
HNFIJ46	3923	919275	1 - 579	15 - 593	

HNFIK03	3924	921951	1 - 276	15 - 290	AL049553.
HNFIK37	3925	576151	1 - 223	15 - 237	T47739, N27353, AA084070, F35659, AL120343, AI951436, AI313166, AL048925, AC005015, AL035587, AL022237, AL031584, AP001035, AL096712, Z82214, AC003959, AC005519, AC007738, AL031296, AC001231, AL121603, AL109654, AL049776, AC000134, Z98752, AP000151, AC006965, AL096766, AC006984, AC005011, AC010849, AL049837, AC002059, AP000513, AL109984, AL035422, AC004596, AL021392, AC007387, AB023050, M96326, AC004799, Z82179, AL035450, AC005414, Z94865, AC005542, AL049856, AC008967, AC011422, AC006354, AC002350, AP000555, AC005822, AC003080, AC007652, AL096774, AP000080, AL122020, AC005988, Z97055, AC008134, AP000018, AP000692, AC004821, AL109620, AC007993, AP000159, AC005081, AL022160, AC004144, U91319, X14448, AC005354, AC005003, U78027, AC005608, AC007285, and AL049757.
HNFIK44	3926	506258	1 - 425	15 - 439	AC004149, and AL049759.
HNFIK13	3927	657201	1 - 421	15 - 435	AI583265, AL038564, and AC004687.
HNFIK16	3928	661500	1 - 259	15 - 273	AC004001.
HNFIK33	3929	702415	1 - 431	15 - 445	
HNFIK60	3930	740372	1 - 429	15 - 443	
HNFIK67	3931	574569	1 - 551	15 - 565	144517.
HNFIK83	3932	779925	1 - 456	15 - 470	
HNFIK027	3933	573095	1 - 447	15 - 461	
HNFIK050	3934	724374	1 - 449	15 - 463	
HNFIK082	3935	921037	1 - 196	15 - 210	AB007864, and AC000159.
HNFIK50	3936	965283	1 - 1489	15 - 1503	AI083668, AI880750, AI911931, AI418465, AI762839, AI659971, AI479026, AI096759, AI033897, AI401511, AI871470, AI884848, AI814201, AW406595, AI431497, AI401210, AA293370, W75960, AA744801, AI127571, AI817886, AW405264, AI684858, W72885, AW026235, AI394414, AI224469, AA292652, AW404229, AA284412, AA766620, AW026968, AW026962, AI360930, AA355073, AI332950, AA633494, AW406035, AW407230, AA535630, AW407951, AI243522, AA929024, AA768971, AW405242, AA744794, AI760712, AW408225, AI000428, AW296233, AI091955, AI432358, R88002, AA744457, AA744459, N75335, AA716083, AI352425, AA744029, AA507894, AA280941, AA811203, AI146957, AL047763, AI468866, AA293055, AL121270, AI349772, AI539771, AI538716, AI800453, AL046849, AW087445, AI440239, AL040243, AI540832, AI499463, AI249257, AW301409, AI800433, AI275175, AL043326, AI064830, AI433976, AI620784, AI625079, AI702433, AL045500, AI433157, AI500659, AW238730, AI250293, AI702406, AI567351, AL119791, AI439933, AW117882, AI281773, AW071349, AI469811, AW195957, AI613017, AI499131, AI439087, AI568855, AI678302, AI631107, AI568870, AI224992, AL121365, AI269696, AI868831, AI633419, AI498579, AI866002, AI436456, AW274192, AI610645, AW074993, AI521012, AI349004, AI349598, AI580190, AL047042, AI866608, AI349645, AI348897, AL119748,

AL135661, AI624668, AI612913, AL038605, AI570384, AW071417, AI119049, AL036802, AL036396, AL045903, AI475371, AI635461, AI802542, AI499393, AI349256, AW169653, AW068845, AI687728, AI857296, AL036146, AL044207, AI863014, AI564719, AI636445, AW103371, AI690426, AI758437, AW303152, AI811344, AI281779, AI862142, AI445432, AW008512, AI271786, AI873731, AI569616, AI281762, AI440426, AW162071, AI580984, AI597750, AI590128, AI340582, AI682841, AI499512, AW002342, AW075351, AL048871, AW148320, AI500077, AW074869, AI445025, AW026882, AI349614, AL038778, AW268253, AI312152, AI818206, AL040169, AI345735, AI349937, AW089572, AW168650, AI699857, AW167776, AI754897, AI036274, AL036759, AI884469, AI866887, AW104724, AW085799, AI439745, AI536685, AI497733, AI799199, AI432969, AI282281, AI636456, AI811863, AI285735, AI869367, AI818683, AI318280, AI620868, AI434281, AI343112, AI619502, AI969601, AI446628, AW168384, AI539153, AW183130, AW196141, AI207510, AI804585, AI609331, AI283941, AI920968, AI500553, AI673256, AI610756, AI637584, AI282655, AI872711, AI469532, AW129202, AW169671, AI580240, AA508692, AI290154, AI269205, AW118512, AI597918, AI800411, AI690835, AI690751, AL121014, AI862144, AW301300, AW078529, AI273142, I48979, AF113013, I89947, AF113691, AF090900, AL133640, AF078844, AF090943, AL080060, I89931, AL133606, AF090903, AL133016, AL110196, AL049938, A93016, AB019565, X84990, AL110221, AF118064, S78214, AL050393, AR059958, AF090901, AF090934, AF104032, Y11587, AL117460, AL117457, AL122050, AL050146, S68736, AL137527, AF113694, AF113689, AL050149, AL050116, AF118070, L31396, L31397, AL049452, AJ242859, AF125949, AF113690, AF090896, AF113676, AF113677, AL133075, AF106862, AL050108, AL080137, U42766, A08916, AL137283, AL049314, AL122093, AL049466, AF113019, A08913, AL133557, AF017152, AL133093, AL133080, Y11254, AL080124, AL122123, AL050277, E07361, AL137557, E03348, AL096744, AL122121, I48978, AF158248, X63574, AF113699, AL133565, AJ000937, AR011880, AL137459, Y16645, AF111851, AF146568, AL050138, AF091084, AL049430, AL117394, U91329, AF079765, AL110225, AF125948, X82434, AF177401, E07108, U00763, I49625, AL117585, AF097996, AL049300, AL117583, AF017437, AL133560, E02349, AL137550, AF067728, AL137538, AL049464, A65341, AL117435, A08910, AJ238278, A08912, X70685, AL049382, A03736, S61953, AL050024, AF183393, A77033, A77035, AL133113, AL122110, I33392, AL122098, A58524, A58523, A08909, U72620, AF118094, AL049283, Z82022, AL080127, X93495, X65873, U80742, AL137648, X72889, AL137463, AF087943, AL137271, A12297, U35846, I09360, I03321, X96540, U67958, AC002467, AC007390, AL133072, AC002464, AR000496, U39656, AF061943, AL122049, AC006371, AL110197, X98834, AL096776, E05822, I42402, E08263, E08264, AL137521, Y09972, AC006336, AL080159, AL133077, AL137523, AC004686, AL133568, AL137560, I17767, AF061981, I26207, AC007392, M30514, AR013797, AF111112, E15569, I66342, AJ012755, AL122111, L13297, A93350, U95739, AC004690, AR038969,				
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HNFIPI71	3937	760366	1 - 427	15 - 441	R61153, AC007845, AC016025, AC016026, Z79966, Z56830, and Z56829.
HNFIQ17	3938	768043	1 - 427	15 - 441	AC000159, and AB007864.
HNFIQ74	3939	765566	1 - 122	15 - 136	
HNFIQ02	3940	928109	1 - 409	15 - 423	AA160511, AI970612, AI129935, AI088792, AW340706, AI445737, AI339728, AW129405, AW029494, AA431754, AA481465, AW072683, AA587221, AA305489, AW273074, AA306890, AI624922, AW117722, AA716154, AI582747, N23212, AI362727, N48805, AA477767, AA152033, AA152108, AA230286, AA812974, AI147376, AI869656, AI184855, AW168381, AI197947, AW136145, AW002763, AW191986, AA477877, AA524288, AI928763, AA233879, AI804827, AA487203, AA740454, AA230195, AA157560, AA486843, AA157958, AI556982, AW054932, AI445690, AI521047, F34247, W42636, AI356995, AA873861, AW275822, AI659224, AI142386, AA805596, F10109, AA835930, AW084015, AA720949, AA443114, AA813801, AW016711, AI197917, AW024764, AW117703, H06723, R27339, H10925, AW083223, R38694, R76673, AA299538, F10656, AA230236, AA687564, AW083394, R27308, AW088939, and AI590774.
HNFI32	3941	848254	1 - 459	15 - 473	
HNFI86	3942	781175	1 - 427	15 - 441	AL031005.
HNFI51	3943	725648	1 - 362	15 - 376	AL031005.
HNFI31	3944	697961	1 - 120	15 - 134	
HNFIU07	3945	953268	1 - 309	15 - 323	N43757, AA450199, AA085023, AW169151, AI921649, AI376100, AW074059, AI356904, AI922654, AI564284, AI816537, AI570138, AW080120, AA491284, AA722372, N22059, AI374809, AI364809, AI580652, AI357551, H71429, H50727, AA488395, T28550, AI956124, AI708009, W85752, R99385, AA578154, AA346458, AA829106, AL110223, AC005089, AC006249, AC000084, U63313, AC002491, U07562, AL035608, AC005663, AC003957, AC005664, AC004866, AC000114, Z99754, AL049843, AB032980, Z97183, AC004623, AC003042, AL024508, AC005354, M62424, AR025392, X13921, AL110121, Z68870, AC005331, AC005199, AP000265, AC002984, AC005953, Z81314, AC005206, AC006958, AL096794, Y14768, Z83313, AC005667, AP000101, AP000505, AP000034, AL031775, AL049748, AL035701, AC005681, U85198, AC007666, AC004671, AC005968, AC006013, U96409, AL022170, AL022328, AC007773, AP000567, AC000052, AF064857, AC006312, AC002368, AL022302, AL109984, AC004851, AC009784, AC002044, AL035458, AC004455, AP000154, AC002565, S42659, U17077, M87923, and AP000012.
HNFIU14	3946	967558	1 - 314	15 - 328	AL031276.

HNFIU24	3947	677178	1 - 380	15 - 394	AC002091, and AC003695.
HNFIU56	3948	733363	1 - 402	15 - 416	AP000356.
HNFIU38	3949	709265	1 - 374	15 - 388	AW300249.
HNFIU73	3950	764409	1 - 350	15 - 364	AW381960, AA856911, AA533315, AW382006, AI279467, AI679002, AC007993, AC004859, AL031659, AL049636, U82668, AC005015, AC007221, AL050307, AC006430, AC005048, AC002091, U07562, AC005355, AP000080, AL024509, AL034345, AD000091, AC004817, AC010206, AC008119, Z82244, and AC022517.
HNFIW62	3951	740598	1 - 380	15 - 394	
HNFIW47	3952	720315	1 - 378	15 - 392	R54654, AA508689, R10145, AI360932, AI161218, AI302363, AI169798, N46098, AW276222, AA284554, AC007382, AL035587, AC004963, AL049839, AL049869, AC005523, AC004491, and AL022323.
HNFIJA29	3953	941525	1 - 498	15 - 512	AA482321, and A90848.
HNFIJA60	3954	740362	1 - 420	15 - 434	N27743.
HNFIJA78	3955	723390	1 - 318	15 - 332	AL117340.
HNFIJB80	3956	752489	1 - 1036	15 - 1050	
HNFIJE30	3957	574145	1 - 418	15 - 432	
HNFIJG33	3958	702411	1 - 425	15 - 439	AC007275, and AC006366.
HNFIJG44	3959	860847	1 - 578	15 - 592	R35010.
HNFIJH59	3960	738593	1 - 545	15 - 559	T06440, AI491715, AI097211, AA715280, AI886336, AI382825, AI561027, AC007684, AC006071, AC005026, AC005041, U91322, AC005274, AL136297, AC007011, AC007263, AL118497, AC000085, AC004000, AC005102, AL022318, AC006205, AL035699, AC004764, AC006501, AC004895, AF111168, Z99716, AC002351, AC006120, AF053356, AC004938, Z97056, AC003957, AC004019, AL022165, AC005833, AB001523, AC007421, AC008055, AL049538, AL049694, AC004583, AC004821, AC007637, AC006511, AC004106, AC005003, AL021918, AC007371, AF109907, AL132987, AC002347, AB000877, AC002287, AL049636, AC004494, AC005839, U52112, AC006046, AC004617, AC005696, AC007151, AP000032, AL122020, Z94056, AL049757, AC002425, AC005358, AL031296, AL096791, AP000506, AC006441, AL121756, AC005736, AC005231, AC005911, AC005944, AC005288, AL031680, AL031767, AC005971, AC008044, AC003664, AC004967, AP000688, U95740, AB023048, AC004659, AC007676, AC005089, U96629, AC012085, AC005071, and AC005409.
HNFIJH70	3961	956187	1 - 890	15 - 904	AI912090, and AA553367.
HNGAC50	3962	724666	1 - 118	15 - 132	
HNGAD53	3963	527977	1 - 213	15 - 227	
HNGAF45	3964	526940	1 - 283	15 - 297	AW084484, AA682801, AI766115, AB017919, AB010999, and AB008803.
HNGAH10	3965	968271	1 - 293	15 - 307	AI810682, AI357542, AI364801, AW138908, AC005041, AC007546, AC005325, AC012627, L09706, AF019413, AC000052, AC004019, X69908, Z68284, AC006958, AP000354, AL022477, and AC005409.

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HNGAH27	3966	573087	1 - 298	15 - 312	
HNGAI23	3967	676296	1 - 355	15 - 369	AI187426, AC006352, AC007028, AC006359, AC002041, U91320, and AC005591.
HNGAI35	3968	558467	1 - 252	15 - 266	AA296593, AL022069, AL031386, AC005381, AL049613, AL035551, AB020862, AC007073, and AC004990.
HNGAI10	3969	860751	1 - 398	15 - 412	AL121840.
HNGAI82	3970	577407	1 - 200	15 - 214	A52418, and A67829.
HNGAK12	3971	660682	1 - 420	15 - 434	AA361909, AA305740, AA127756, AA769607, AA703462, AW294771, AF096300, AL137755, AB014587, AC005035, U88984, and AB013385.
HNGAK70	3972	860770	1 - 353	15 - 367	AC002303.
HNGAL51	3973	531719	1 - 235	15 - 249	
HNGAL84	3974	573099	1 - 166	15 - 180	
HNGAL88	3975	574666	1 - 243	15 - 257	AC005576, and U95626.
HNGAL92	3976	953889	1 - 199	15 - 213	
HNGAN28	3977	685436	1 - 150	15 - 164	
HNGAN78	3978	577412	1 - 432	15 - 446	AC008012.
HNGAO40	3979	660305	1 - 158	15 - 172	AI660791, and AI660768.
HNGAP18	3980	666852	1 - 321	15 - 335	AA580572, AW079831, AC005914, AC005529, AC006538, AC005527, AC007731, AC005500, AC006251, AC007536, AC005694, AC006273, AL121652, M63005, M63544, AL049869, AC005594, U91325, AL022323, AC004752, AC005084, AL035587, AL023575, AC004934, AF146367, AC005091, AL023803, AL031846, AF124523, X16289, and AC006130.
HNGAP59	3981	916323	1 - 152	15 - 166	
HNGAQ34	3982	574647	1 - 211	15 - 225	
HNGAR83	3983	574470	1 - 375	15 - 389	
HNGAS51	3984	773208	1 - 231	15 - 245	AL023913.
HNGAU59	3985	860839	1 - 77	15 - 91	AC000365.
HNGAU65	3986	925692	1 - 235	15 - 249	
HNGAV04	3987	506589	1 - 431	15 - 445	

HNGAV25	3988	574671	1 - 273	15 - 287	
HNGAV53	3989	573092	1 - 360	15 - 374	
HNGAV79	3990	574661	1 - 369	15 - 383	
HNGAV84	3991	574651	1 - 93	15 - 107	
HNGAV88	3992	860753	1 - 439	15 - 453	AL024473.
HNGAW25	3993	574645	1 - 329	15 - 343	
HNGAW40	3994	711454	1 - 399	15 - 413	AW020198, AJ003469, AW247338, AI478772, AI300507, T67734, AC005175, AF001548, AI139054, AF001550, AC005527, AL023653, AC005399, AC005529, AI035405, AL031228, AC004815, AC005535, AP000359, Z83844, AC005786, AF030453, and AL117258.
HNGAX82	3995	507313	1 - 333	15 - 347	AC006953.
HNGAZ49	3996	715380	1 - 387	15 - 401	AA584072, AP001069, AP000567, AC005250, and AC008372.
HNGBB06	3997	936080	1 - 408	15 - 422	HS00004, and H62199.
HNGBC50	3998	868082	1 - 1653	15 - 1667	AW0069227, AL119625, AA813902, AA720582, AI702095, AI910609, AW272925, HI15679, AA653221, AI634187, AI431232, AI677668, AI684208, AI720431, AI805380, AI367420, AI367401, AI986251, AA632407, AI186470, AW338292, AI128353, AI832782, AI457313, AI925423, AA491864, AL048267, AA704147, AI818212, AI473995, AI679394, AI678812, R43331, AA526413, AI679902, AW025031, AI583397, AA634737, AA484022, AA177061, AI288033, AA015918, AC002316, AC003962, AC006111, AC004832, Z99291, AC005058, AI022476, AC002115, AF207550, Z97054, AI117339, AC009516, AI133448, AC003950, AC006509, AC004812, AC002126, D87675, AJ003147, AL096701, AC004167, AC005913, AJ251973, AC000052, AC002401, AL034430, AC007666, AC005585, AC004686, AE000658, AI035422, AC007685, AC005412, AL136295, Z84466, AC005726, AL022721, AC006511, AC006061, AL049830, AP000493, AC007371, AC005746, AC005229, AC005375, AP000704, AP000558, AP000011, AP000152, AC006571, Z82203, AL031577, AL031846, AC003108, AC006121, AC004821, AC005914, Z93023, AL031432, AC007226, AC004583, AI096791, AI109628, AC005008, AL117694, AC005747, AP000114, AP000046, AC005332, AP000466, AC004834, Z83844, Z93241, AC005666, AC003104, AC005940, AB003151, AP000240, AL035400, AL121655, AL035089, AP000303, AC005084, AF053356, AL031602, AC005480, AC009946, AL049839, AP000501, AP000557, AC002558, Z85986, AC006211, AC004673, AF152363, Z84487, AC005696, AC005527, AC004148, AL034379, Z95114, AC005730, AC007216, AC004895, AP000252, AL022330, AC002045, AC008044, AC004019, AC008123, AC006071, AC005620, AP000212, U85195, AI008582, AC005049, AC005279, AC004773, AF003626, AC006146, AC004033, U91323, AC005004, AC005071, AL022326, AC007283, AL031650, AL049760, AC002302, M26434, AL109623, AC004386, AC006449, AC006328, AL049569, AC006344, AC005189, AC006006, AL049709, AL031680, AC020663, AC004522, AF064861, AC008040, AP000692, AL021154, AC004032, AL021069, AC003109, AC005399, AP000269, AL049743, Z96074, AC005089, AI035681, AL023883, AP001039, AL031589,

						AC005736, AC007363, AP000049, AP000116, AC009247, AC004882, AP001052, AC010077, AC007690, AI021391, AP000103, AC007160, AC002563, AC004706, Z97056, AC004257, AI133245, AC006115, AF067844, and AC002429.
HNGBE26	3999	684761	1 - 361	15 - 375		AC005553.
HNGBF41	4000	571331	1 - 359	15 - 373		
HNGBF80	4001	574475	1 - 345	15 - 359		
HNGBG20	4002	860739	1 - 341	15 - 355		
HNGBG50	4003	577364	1 - 273	15 - 287		AC002492.
HNGBH04	4004	574469	1 - 163	15 - 177		
HNGBH77	4005	577361	1 - 302	15 - 316		AC004538.
HNGBI10	4006	968246	1 - 323	15 - 337		<p> T18597, AA585098, R45895, R29657, Z32822, D51433, AA585101, Z32887, D57491, D59751, D61185, C15406, D53161, R28735, R29445, C15069, AI525316, AI557262, AI526078, AI526140, AI557864, R28892, AI541356, R28965, AA585378, AA585155, AI541365, AI525500, AI557740, AA170832, AA585439, Z28355, D60765, D54897, D60844, D59436, Z33559, AI557809, AI557718, R29218, AI546999, AA585329, AI541535, AI541517, AI557731, D54850, D52835, AI526016, R28967, R28895, AI546971, AI557727, AI541205, AI526184, AI525556, C16294, C16315, AI547250, AA283326, AI541383, AI555639, AI546875, D55233, D59458, AI540903, AI557763, AI547039, AI557787, D61254, D53447, AI557734, C16300, C16296, AI557084, C16292, C15120, C15762, AA585476, AI526109, D53472, C16293, AI557807, AI541346, AI541013, AI547202, AI546831, AI557533, AI525306, AI526024, C16305, C15737, AI541374, AI541034, AA585356, AI557408, D60730, AI557758, AI546945, AI525431, AI547196, AI557279, AI525339, Z36724, AI526191, AI557155, AI535660, AI526194, AA585430, AI526117, AI557602, AI526112, AI541523, R29179, Z30131, D57186, AI557852, AI546921, AI540974, AI541307, AI546996, AI541321, AI540967, AI546891, AI525320, AI547006, AI525856, AI526158, AI546901, AI557317, AI536138, AI541492, AI557808, AI525168, AI526146, C14208, AI541422, AA585453, R29262, AI525656, AI546829, R29172, AI526113, AI541402, AI557264, AA585389, AI557799, C16290, AI541527, AI526195, R29177, AI541515, AI526176, AI557810, AI557039, AI541423, AI556967, T19407, AI547189, AI525114, AI557786, AI524904, AI525076, C14210, AI526073, AI547137, AI557041, AI541516, T41289, AA514191, AI541510, D61060, AI526205, AI526169, AI541415, AI526180, AI541027, AI546954, AI526187, AI525332, AA585434, AI525286, AI557785, AI557238, AI524891, AI540944, AA585117, T41329, C14322, AI541345, AA585420, AI557796, AJ239433, AI540920, AI546828, AI541506, AI557082, AI524890, C14391, C14723, AA174170, AI526026, AI547158, AI541075, AI547026, AI540928, AI046024, AI540882, AI557285, AI547122, AI546841, AI541514, D51413, AI557802, AI541017, AI547138, AI541390, AR062871, A25909, AR038855, X82786, Y09813, X76012, AR031358, AR031365, AJ243486, AJ244005, Y16359, AF082186, AR038762, Z32836, AR054723, X81969, D50010, D13509, X55486, AJ244004, A20702, AR062872, AR062873, A20700, D78345, A43189. </p>

HNGBI35	4007	574403	1 - 126	15 - 140	A43188, AR017826, A1244006, AR017907, AC005913, A1244003, AR003381, Z30183, A62298, AF213384, AR050070, A82595, A82593, AF006072, A98420, A98423, A98432, A98436, A98417, A98427, X82834, and L36913.
HNGBI70	4008	781978	1 - 429	15 - 443	N72393.
HNGBI88	4009	574409	1 - 331	15 - 345	AC002310.
HNGBI95	4010	785983	1 - 223	15 - 237	AC005215.
HNGBI40	4011	948741	1 - 563	15 - 577	
HNGBI84	4012	573072	1 - 295	15 - 309	
HNGBI96	4013	574474	1 - 286	15 - 300	
HNGBN36	4014	526808	1 - 425	15 - 439	AC007380.
HNGBO34	4015	932408	1 - 412	15 - 426	
HNGBP21	4016	671258	1 - 498	15 - 512	H02689, T73124, AL080280, AL080281, and A68194.
HNGBP28	4017	421816	1 - 201	15 - 215	
HNGBP35	4018	526806	1 - 293	15 - 307	
HNGBQ20	4019	859846	1 - 523	15 - 537	
HNGBQ75	4020	573047	1 - 339	15 - 353	
HNGBS88	4021	575561	1 - 404	15 - 418	
HNGBT44	4022	574400	1 - 343	15 - 357	AA594214, A1612901, AC002365, AC002300, AC005921, AC003684, AC004778, and Z98946. AA252763, AL133723, AW193265, A1284640, F36273, F33566, A1688846, F29989, AA858197, A1446464, A1350211, AA824654, AA678436, AW193432, AA515435, AA824655, AA350859, AA810370, A1471481, A1053672, A1282832, A1358501, AA515128, AL046409, F31204, A1061334, AA302648, H64777, A1963720, F18974, F37286, A1824562, AA340747, T07451, A1610159, A1431303, AA610491, A1471543, A1049634, AW406755, A1768952, A1358229, A1249997, AA669840, AA977743, A1365988, AA377730, A1963095, AW276827, A1669453, AA747276, AA586655, F25276, AA719805, T29180, F28776, AW339687, AA846955, F30933, A1635272, A1064864, A1270117, AW193609, AC006287, AC004006, AF117829, AL133163, Z99571, AC006965, Z93928, AF027390, AC012599, AC007014, AL022329, AC005799, AC008125, AC002303, AL031650, AL109657, AL078638, AL021918, AL021368, AC007685, AL121578, AC005409, AF130342, AL078644, AC005911, AL021808, Z84480, AC005066, AC008071, AC007227, AC003050, U91319, AC006549, AC006367, AC006153, AC007221, AC006042, AL035551, AL078593, AC006322, Z97196, AC005751, AL049830, AL096861, AL035089, AC005291, AL049775, AC006195, AL096791, AC006012, AC004673, AC006500, AL022163, AC004869, AC010072, AC004485, AP000036, AL049697, AP000260, AC004690, AC005189, U91322, AC005324, AP000069, AC005303, AC021092, AP000099, AC007590, AL022160, AC004470, AL031433, AC006525, AP000355, AC007326, AF196971, AC006213, AB020858, AL078604, AC007687, AC006561, AC006238, AL033517, AC005755, AC004686,

HNGBT58	4023	577325	1 - 323	15 - 337	Z82975, AC003684, AL121658, AL023799, AL035086, AL135744, AC005914, AC005792, AC002386, AL035667, AJ229041, AC004025, AP001172, AC007043, AC006043, AC006313, AC007436, AC005699, AC000385, AF029308, AC002984, AL021307, AC005015, AC004554, AC016025, AL034548, AF045555, AC007845, AL031584, U69730, AL109798, AC005191, AC007262, AC003003, AP000359, AC002289, AL078639, AC005722, AC007681, AC005081, U73633, AP000567, AL049845, AL109939, AJ011930, AL021155, AC004804, AC009223, AL121823, AL022727, AL049776, AC002367, AC005255, AP000159, AF181896, AC006017, AF165926, AC005013, AC003001, AP000020, AC004806, AC004547, AL049588, AC007363, AL133238, Z83840, AC005301, AC003083, AC006211, AC005400, and Z97181.
HNGBT72	4024	579064	1 - 358	15 - 372	AW162493, AW298244, AA435512, AW295626, AW295622, AA527713, AA663337, AA393547, AC005057, AC007536, AC005520, U82670, Z59900, and Z59880.
HNGBU15	4025	574467	1 - 209	15 - 223	
HNGBV67	4026	574468	1 - 420	15 - 434	
HNGRW63	4027	574466	1 - 216	15 - 230	
HNGBX64	4028	574472	1 - 96	15 - 110	
HNGBZ16	4029	667293	1 - 414	15 - 428	
HNGBZ17	4030	575717	1 - 437	15 - 451	AC005332.
HNGBZ20	4031	812895	1 - 318	15 - 332	
HNGBZ55	4032	573069	1 - 249	15 - 263	AI761359.
HNGBZ92	4033	574464	1 - 218	15 - 232	
HNGCA47	4034	574465	1 - 192	15 - 206	
HNGCA61	4035	574461	1 - 278	15 - 292	
HNGCB44	4036	674670	1 - 389	15 - 403	U95740.
HNGCC47	4037	926947	1 - 130	15 - 144	
HNGCD08	4038	959963	1 - 365	15 - 379	
HNGCE85	4039	970738	1 - 293	15 - 307	AA292726, AA887639, AI351774, AI655222, AW009008, and AI989605.
HNGCF09	4040	527972	1 - 139	15 - 153	
HNGCF28	4041	574397	1 - 222	15 - 236	
HNGCG83	4042	868075	1 - 389	15 - 403	H86238, and AC005670.
HNGCH05	4043	932404	1 - 476	15 - 490	H92525, H48715, AI085029, H90375, AA075537, R01389, AA668973, AI352404, AW103601, AI217313, W88502, H70430, AA528363, Z84480, AC003103, AC002352, AF196969, AC000357, AC005335, AC007535, AC003101, AC005520, U91322, Y11535, AF006752, AC005546, AC006162, AC005072, U82668, AL023913, AC002350, AC004834, AF061032, AC001228, AB018503, AC008989, AC005902, AC004887, AL035249, AC006166, AC006165, AB023051, Z73979, AC006313, Z98950, and AC006430.

HNGCI02	4044	920722	1 - 224	15 - 238	
HNGCI11	4045	967513	1 - 456	15 - 470	
HNGCI17	4046	526807	1 - 403	15 - 417	
HNGCI53	4047	825377	1 - 403	15 - 417	
HNGCI69	4048	574456	1 - 264	15 - 278	
HNGCK34	4049	706561	1 - 193	15 - 207	
HNGCK82	4050	796479	1 - 130	15 - 144	
HNGCK93	4051	574458	1 - 262	15 - 276	
HNGCL31	4052	571332	1 - 395	15 - 409	AI025072.
HNGCL55	4053	574453	1 - 377	15 - 391	
HNGCM05	4054	932409	1 - 133	15 - 147	
HNGCO37	4055	708694	1 - 396	15 - 410	
HNGCO45	4056	573055	1 - 370	15 - 384	
HNGCO86	4057	779203	1 - 365	15 - 379	D80045, D80212, D80157, D80268, D80248, D80195, D59502, D80439, D59619, D80210, D80240, D81026, D81030, C14389, D80164, C15076, D80219, D59653, D80022, D80166, D80193, C06015, D80302, D59467, D80391, D59275, D80038, D59787, D80227, C14331, D80269, AA305409, D58283, D80196, D80247, D50979, D59859, D51423, D51799, D80253, D80043, AA305578, D59927, D80133, D80366, D80188, D51022, D80522, D50995, AA514188, C14014, D51060, D59610, D80378, D51103, D57483, D59889, AA514186, D80024, D51759, AW177440, AW360811, C14429, D80241, D80251, AW178893, C75259, C03092, AW377671, AW375405, AW360844, C05695, A1525923, D59373, AW377676, T03269, AW178906, AW366296, AW178986, AW360817, D45260, AW179328, AA809122, T48593, D80258, AW375406, AW378534, AW179332, D59503, AW377672, H67854, AW179023, AW178905, H67866, AW177731, AW378528, AW178762, AW179019, AW378532, T03116, A1525917, D80064, T11417, AW177501, A1535686, AW177511, F13647, D51213, AW378533, AW179020, AW352171, D59317, AW352170, D58246, C14227, AW178907, AW177733, AW178908, AW179024, D51221, AW360834, AW177734, D81111, D51250, A1525920, C14344, AW360841, D80014, AW352120, D59551, C14973, A1525227, AW177505, AW367950, AW178775, AW178909, AW177456, AW179004, AW179329, AW178980, D59695, AW178914, D80949, AW178774, AW178754, AW179018, AW352158, AW176467, D59474, AW352117, Z21582, D60010, A1525925, AA514184, D80228, D60214, AW177728, C13958, A1525235, D58101, D52291, A1557774, D45273, AW179017, C14957, C14046, C14407, AW179009, AW179012, AW178911, AW378543, AW378525, AW378540, AW177722, AW352163, A1525242, D59627, D80388, C05763, D80168, A1525237, AW179013, A1525222, A1525912, AA285331, AW378542, A1557751, A1525215, AW178781, C14298, AW378539, C16955, A1525928, Z33452, T02974, A1910186, F13796, AW360855, T03048, D51053, A1535663, T02868, H67858, C04682, D31458,

						A82595, AR060385, A84916, AB028859, AJ132110, AB002449, A62300, A62298, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, I14842, A45456, AR016514, AR066487, A43192, A43190, X67155, AR060138, Y17188, A94995, D26022, A26615, AR052274, Y12724, AR038669, A25909, A30438, AR066488, A67220, Y09669, D89785, A78862, D34614, AR054175, AR008443, Y17187, A63261, D88547, AR008277, AR008281, AR016691, AR016690, U46128, AR062872, D50010, A70867, AR016808, X82626, AR008408, I79511, A64136, A68321, AR060133, I82448, and AR025207.
HNGCQ37	4058	708698	1 - 325	15 - 339		
HNGCU24	4059	574339	1 - 137	15 - 151		
HNGCU70	4060	574340	1 - 141	15 - 155		
HNGCW38	4061	574463	1 - 308	15 - 322		AC005920.
HNGCW81	4062	577253	1 - 389	15 - 403		AW104496, and AA485071.
HNGCW82	4063	574344	1 - 348	15 - 362		
HNGCW83	4064	574338	1 - 126	15 - 140		
HNGCX07	4065	933900	1 - 334	15 - 348		
HNGCY37	4066	932203	1 - 546	15 - 560		AI564185, AA829565, AL133246, AC002416, AL031587, AP001052, AC006071, AL080243, AC004386, AL109759, AF001552, U52111, AL109798, AC005156, AC002546, AC006013, AL049776, AC005911, AC009336, AL049539, AC008372, AL035587, U85195, AL022165, AL035089, AC005411, AL049760, AF205588, AC004526, AJ246003, AP000031, AC005069, AC005342, Z68285, AL121658, AC004552, AC005225, AL109628, AC006111, AL021707, AC005255, AL109963, AE000658, AC004019, AC005971, AF111168, AL031255, AC007773, AC002470, Z86090, AL033527, AC004805, AL031229, AL117329, AL022322, AP000359, U95742, AP000008, AP001037, AC005632, AP000704, AC006480, AC003109, AC008040, AC004770, AC009308, AL031387, AC006449, AL133448, AL022476, AC004478, AL031274, AL021579, AC007488, AC007543, AC006241, AC007221, AC005484, AL049829, AL008726, AL049766, AL109847, AF045555, Z93023, AC005102, AC002350, AC007325, AC005072, AC007981, AC005914, AF064861, AL050318, AC005562, AC005081, AC009248, AC004659, AC004139, AL024474, AP000555, AL035455, AC004859, AL133163, AC005703, AC005488, AC002302, AL049692, AC007283, AL133245, and AC004134.
HNGCY41	4067	806055	1 - 272	15 - 286		
HNGCY43	4068	574392	1 - 333	15 - 347		AC002127.
HNGCY59	4069	959967	1 - 784	15 - 798		AA649070, AA210872, AA809496, AI567520, AA405464, and N67248.
HNGCZ13	4070	660916	1 - 394	15 - 408		
HNGDA09	4071	574454	1 - 220	15 - 234		
HNGDA56	4072	574452	1 - 324	15 - 338		
HNGDB25	4073	784836	1 - 364	15 - 378		

HNGDB65	4074	52852	1 - 248	15 - 262	AL022101, and AL023753.
HNGDD30	4075	573021	1 - 421	15 - 435	
HNGDD39	4076	709270	1 - 150	15 - 164	<p>T18597, AA585325, Z32822, AA585378, R45895, AA585098, R29657, Z32887, D59751, D53161, AA585329, AA585101, C15406, D57491, D61185, Z33559, R28735, R29445, D59458, A1557718, A1525316, A1541356, A1557262, C15069, A1557864, A1557740, A1526078, A1525500, D51433, R28892, D59436, R28965, D54850, A1541517, AA585439, Z28355, AA585155, A1526140, A1541365, R28967, A170832, A1535639, D60765, D54897, D60844, Z36724, R29218, A1541205, A1557809, A1525556, A1557727, A1557731, A1546831, A1546971, R28895, A1535660, A1541535, A1557787, A1526016, A1526184, A1540903, C16294, C16315, AA585430, A1541034, AA283326, A1557084, A1541383, A1546999, A1557533, AA585356, A1546875, A1547250, D55233, A1557763, A1547039, D61254, D53447, A1557734, C16292, C15120, C15762, D52835, A1526112, A1526117, D53472, AA585476, A1557408, A1541346, A1557602, A1557807, C16300, A1541013, C16296, A1525339, A1526024, C16293, A1557852, D30843, A1525306, A1547196, C16305, C15737, A1525302, A1541374, A1557155, AA585389, A1557317, A1526109, A1536138, A1547202, D60730, A1525168, A1557758, A1526146, A1546945, A1525431, A1526158, A1526191, A1541515, A1526194, A1540974, A1546921, A1541321, A1541307, A1525320, A1541492, A1546901, A1557279, A1557810, A1547140, Z30131, A1557808, A1541423, A1525856, A1526176, D57186, A1557264, A1541353, A1557799, A1541516, A1547189, A1546996, A1540967, A1546891, R29179, A1541402, A1547006, A1546829, AA585453, A1525114, A1526195, A1541422, A1557041, C14210, C14208, A1541527, A1525656, A1526169, A1557039, D61060, A1525076, AA585434, A1526113, R29262, R29172, C16290, A1524904, R29177, A1524891, A1541027, A1540944, A1556967, A1557786, AA585117, T19407, A1546954, A1525332, A1526073, A1239433, A1547137, AA585420, A1557238, A1557796, A1541510, T41289, AA514191, A1524890, A1526187, A1557785, A1526205, A1540928, A1541506, A1541415, A1541075, A1547158, A1541345, A1541450, A1525286, A1546828, D51413, A1557082, T41329, D50992, A1526026, A1046024, A1547122, A1546841, A1540920, A1557802, A1557285, A1547026, A1547138, A1557543, A1541362, A1540882, AR062871, A25909, AR038855, X82786, Y09813, X76012, A85395, A70872, A70869, A85476, U94592, AR031358, AR031365, AR037157, U87250, AC005913, A1243486, AR017826, A1244006, A1244005, Y16359, AF082186, AR038762, Z30183, AR003381, AF213384, X81969, Z32836, A62298, AR054723, D50010, D13509, A1244004, X55486, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR050070, A82595, A82593, AR017907, AF006072, A1244003, X82834, AF135243, AB005666, L36913, and AJ131952.</p>
HNGDD73	4077	764596	1 - 452	15 - 466	AC005390.
HNGDE07	4078	953858	1 - 239	15 - 253	
HNGDE31	4079	794124	1 - 382	15 - 396	AF109718, AC004908, AC006328, AC004916, AC004842, and AL133216.
HNGDF48	4080	723368	1 - 147	15 - 161	AL022098.
HNGDF72	4081	766217	1 - 315	15 - 329	AC004914.

HNGDG86	4082	577237	1 - 310	15 - 324	
HNGDH09	4083	573022	1 - 364	15 - 378	
HNGDH37	4084	917254	1 - 201	15 - 215	
HNGDH52	4085	914629	1 - 422	15 - 436	
HNGDH96	4086	573060	1 - 427	15 - 441	
HNGDK17	4087	860684	1 - 351	15 - 365	
HNGDK41	4088	574559	1 - 375	15 - 389	AA354141.
HNGDL32	4089	935842	1 - 355	15 - 369	U51561.
HNGDL72	4090	574451	1 - 90	15 - 104	
HNGDL93	4091	927582	1 - 170	15 - 184	
HNGDO17	4092	973285	1 - 680	15 - 694	
HNGDP10	4093	968221	1 - 437	15 - 451	<p>AW392414, AA721530, AA657910, R76962, AA362349, AL039309, AA211734, AA946848, R69527, H43771, AA714073, AA362348, A1471455, R87275, A1217131, I186221, AA429481, AA721523, AA483606, H84412, W63553, A1687343, AA570740, AA568204, A1306717, AW117723, H62550, A1130709, A1536858, A1537995, T69879, AA019003, AL041352, AW029269, A1368732, A1814682, A1758799, A1291439, AA488689, A1708152, R87883, AW190277, AW272640, AW117704, AA805848, AA355367, AA018923, AA012829, AA489240, AL037052, R33734, AW148775, A1298787, A1215784, AA831801, T40629, H67064, A1473671, U51704, Z95327, AF196970, AF141325, AL022311, AC007207, AC007201, AC005796, AC005829, AL035458, M31303, X94912, AC006360, U29874, AC007880, Z49235, AC002037, AC007707, AP000694, AC004817, AD000684, AC002128, Z83845, AL049733, AC006101, AC005828, AL121754, AC004491, AP000501, AC003667, AC003070, AP000030, AF030453, AC012039, AC005088, AC005237, AP000248, AL034549, AC005920, M87889, AP000065, AL049776, AC003690, AC000075, AC003072, AC000084, AC002491, AP000313, AC007199, AP000193, AL049843, AP000050, AL023877, AL034417, AC008044, AL023775, Z95115, AC002400, AC007993, AL031667, AP000117, AC005666, AL022721, AC008009, Y10196, AC008018, AP000347, Z98749, AC004815, AL022331, AC016831, AL049540, Z98051, Z93244, AC002351, AC005274, AC005201, AL022326, AC007161, U85195, AE000658, AL135879, AL121790, AC005081, AC004647, AC005480, AL031666, AL024508, Z73417, AC005914, AC005015, AL034402, AB020690, AC005328, AL031721, AF006487, AC006275, AC004257, AD000813, AF027974, AC005619, AC004611, Z82243, AC004694, AL021453, AC004814, AP000289, Z98743, AL031905, AC005773, AP000042, AP000110, AC004996, AL050341, AC004079, AC005663, AC004703, AC003983, Z95113, AC005924, AF196972, AC004941, AB017602, Z84466, AC005664, AL049759, AC005844, U52111, AC007276, AC008064, AL080243, AC006547, AC005261, AL049780, AL022318, AC006530, AC003101, U47924, AC000353, Z93241, U94776, AP001056, AL031728, AC005071, AC002477, AC007363, AL035249, AC006210, AL034420, AP001054, AC007429, AL031407, AL008725, AP000348,</p>

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HNGDP13	4094	574484	1 - 452		15 - 466	
HNGDP27	4095	574482	1 - 433		15 - 447	AI962959.
HNGDP29	4096	574488	1 - 401		15 - 415	
HNGDP30	4097	574480	1 - 351		15 - 365	AC005866.
HNGDP71	4098	574481	1 - 348		15 - 362	
HNGDP74	4099	860669	1 - 487		15 - 501	
HNGDP89	4100	574478	1 - 389		15 - 403	
HNGDP95	4101	574477	1 - 315		15 - 329	
HNGDR19	4102	953672	1 - 376		15 - 390	
HNGDR42	4103	657404	1 - 284		15 - 298	
HNGDR79	4104	572904	1 - 248		15 - 262	
HNGDR81	4105	572901	1 - 364		15 - 378	
HNGDR88	4106	860666	1 - 311		15 - 325	AC004408.
HNGDS04	4107	572909	1 - 533		15 - 547	
HNGDS59	4108	576763	1 - 250		15 - 264	AL035469.
HNGDS96	4109	796488	1 - 504		15 - 518	
HNGDT36	4110	572895	1 - 400		15 - 414	
HNGDU45	4111	722062	1 - 504		15 - 518	AP000274, and AP000105.
HNGDV22	4112	572910	1 - 432		15 - 446	
HNGDV25	4113	573152	1 - 287		15 - 301	AF118808.
HNGDV59	4114	739407	1 - 98		15 - 112	AC006166, AB023051, and AP000512.
HNGDV96	4115	796487	1 - 501		15 - 515	AP000345.
HNGDW23	4116	576773	1 - 420		15 - 434	
HNGDW62	4117	573162	1 - 290		15 - 304	AP001054.
HNGDW95	4118	661943	1 - 488		15 - 502	
HNGDX50	4119	860661	1 - 300		15 - 314	
HNGDY12	4120	870390	1 - 585		15 - 599	AC006263.
HNGDY14	4121	968042	1 - 258		15 - 272	
HNGDY39	4122	572908	1 - 396		15 - 410	AC005702, and AC003976.
HNGDY92	4123	920168	1 - 409		15 - 423	AL033538.
HNGDZ52	4124	572865	1 - 348		15 - 362	
HNGEA44	4125	572855	1 - 149		15 - 163	

HNGEA82	4126	778879	1 - 165	15 - 179	AL021367.
HNGEA88	4127	578911	1 - 348	15 - 362	AC002492, and AC002045.
HNGEB79	4128	576743	1 - 385	15 - 399	Z97351.
HNGEB81	4129	572862	1 - 299	15 - 313	AP000250, AP000030, AP000133, and AP000211.
HNGEB91	4130	924912	1 - 340	15 - 354	
HNGEC02	4131	917530	1 - 987	15 - 1001	AA585439, AI525328, AI525556, AI535639, AA585453, Z28355, AI541523, AI546855, AI541374, AI525316, AA585440, AI546999, AI525306, AI541514, Z30131, AI526140, AI556967, AA585101, AA585434, AI546899, AI541508, AI557807, AI541510, C15189, AI526194, AI525431, AI557084, AI546945, AA585356, AI541509, AI546828, AI541013, AI541365, AI526180, AI541535, AI547039, AI540967, AI557731, T11028, AI541017, AI535660, AI557799, AI557787, D61254, R29445, C16300, R28735, AI541307, AI536138, AL040625, AI045817, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL040510, AL041098, AL040621, AL043538, AL041324, AL040464, AL041162, AL041086, AL043496, AL041296, AL041233, AI526196, AI526184, AL041159, AL045725, AL041140, AL040193, AL043467, AL04186, AI557262, AL04037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL040553, AL040332, AL040617, AL045684, AL040745, AL040370, AL043677, AL046442, AL040839, AL040149, AL041752, AL043775, AL041165, T23985, AL043492, AL041602, AL045920, AL041278, AL038838, AL040253, AL044074, AL041635, AI546875, AI525321, AL045990, AL040458, AL044199, AL044187, AL040263, AL040090, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AI541205, AL041374, AL040052, AL043845, AL043537, AL039338, AL042135, AL044064, AL039316, AL043923, AL038983, AL043814, AL043848, AL041459, AL043570, AL041577, AI044201, AL044258, AL046850, AL038532, AL040768, AL037727, AL046994, AL040414, AI540920, AL040576, AL040571, AL046914, AI142134, AL045753, AL044274, AL079878, AL049018, AL040444, AA585476, AI526144, AL045857, AL039744, AI541345, D57491, AL038822, AL045671, AL046327, AL041168, AL049069, AL043444, AL041246, AL040472, AI557796, C16305, AL040238, T41289, AL041347, AL041955, T23957, AI525320, AL038761, AL040075, AI546891, AI535813, AL080031, AI526187, R29177, AL045989, AI526073, AL046147, AJ239433, AL042096, AL044529, AI541317, AI557082, AL037436, AL039643, AL039360, D55233, AL037435, R29218, T23888, AI557802, AL044125, AI557238, AI525653, AA174170, AI541415, AI541390, AL079852, AI525339, AA585155, AI557155, AL045211, AI557727, AL043950, AL134123, AI541506, AI525856, D61185, AI557734, AI541534, R45895, AI557279, AL041210, AL037341, AI557740, AL023494, AR017907, I13349, A91965, X81969, I44681, I66485, I66487, AR008429, AR038855, AR062871, A25909, I66495, I66494, I66498, I66497,

					I66496, I66486, I66481, A85395, I66488, I66489, I66482, I66490, I66491, I66492, I66493, A83642, A83643, I66483, I66484, A85476, A83151, AR062872, AR062873, AF082186, AJ244004, AJ244005, AR037157, AJ244003, A20702, A20700, A43189, A43188, A98420, A98423, A98432, A98436, A98417, A98427, I63120, I18895, A98767, A93963, A93964, AR038762, Y16359, D78345, A84772, X83865, A84776, A84773, A84775, A84774, AR054109, AR067731, AR067732, A86792, A58522, A91750, AJ244007, A18053, M28262, A60212, I15717, A60209, A60210, A60211, I15718, E03627, I49890, I48927, A02712, A77094, A77095, I84553, A81878, A95051, I84554, A18050, A23334, A75888, I70384, A64973, A60111, A23633, AR007512, I08396, I00682, A11623, A11624, E00609, E13740, A11178, E01007, A10361, A35536, A35537, A02135, A04663, A02136, A04664, I06859, I08395, AR043601, I19525, A11245, I03331, A02710, E12615, AR035193, E14304, A07700, A13392, A13393, I62368, AR031488, I13521, I52048, A27396, AR027100, I44531, I28266, I21869, I44516, A70040, E16678, A82653, E16636, A93016, A24783, A24782, A92133, A95117, A58524, A58523, A90655, AF149828, I01995, I08051, AR031566, I25027, I26929, I44515, I26928, I26930, I26927, AR038066, A32110, I60241, I60242, A20699, E00696, E00697, E03813, AR009151, AR027099, AR051652, AR051651, U94592, I05488, I61310, Z32836, A60961, A60977, Y09813, D50010, AJ230935, A91752, I08196, AR028564, A68112, A68104, AJ230902, A06419, A21892, A23997, A68114, A89633, A89634, A60985, A21895, A60990, A47368, A05160, A08030, A20502, A60987, AR027319, I19516, I19517, A91751, A76773, AR027318, A22413, I05558, A29109, A32111, AR002333, I63560, AR009152, I63561, I63563, I07249, I08776, I15353, AR068508, AR068510, AR068509, A63954, I91969, AJ230972, I58322, I58323, AR003585, A38214, I25041, I56772, I95540, A95096, A95106, A95105, AR035975, AR035974, AR035977, AR035976, AR035978, AJ230951, A70872, X07299, AJ231009, I08389, A62298, A22738, D13316, A70869, D13509, AB025273, and A25246.
HNGEC06	4132	935840	1 - 303	15 - 317	AL050321.
HNGEC41	4133	782294	1 - 433	15 - 447	
HNGEC43	4134	573040	1 - 425	15 - 439	
HNGEC44	4135	806031	1 - 626	15 - 640	
HNGEC75	4136	916809	1 - 619	15 - 633	A1420921, and A1139760.
HNGED03	4137	924696	1 - 295	15 - 309	
HNGED21	4138	920156	1 - 335	15 - 349	
HNGED77	4139	572868	1 - 358	15 - 372	AA501465.
HNGED91	4140	790309	1 - 450	15 - 464	AL120191, H71450, AW339743, A1053560, AW302753, AW301906, A1144081, AW302711, A1953573, A1133727, AA514024, AL020993, AL109865, AC004671, AL118516, AL050332, AC006285, AC016025, AL031773, Z98743, AC004841, AC002418, AC004386, AL033380, Z49250, AC005225, AF165138, Z84486, AC006080, AL022727, AC005945, AC005795, U66083, AL109963, AC000004, AL121852, Z94160, AC005150, AC002044, and AC004262.

HNGEE18	4141	573018	1 - 308	15 - 322	
HNGEE39	4142	573065	1 - 293	15 - 307	
HNGEF58	4143	708692	1 - 338	15 - 352	
HNGEG45	4144	572880	1 - 335	15 - 349	
HNGEG74	4145	860685	1 - 404	15 - 418	
HNGEG85	4146	784431	1 - 353	15 - 367	
HNGEG86	4147	573049	1 - 273	15 - 287	
HNGEI22	4148	967310	1 - 349	15 - 363	
HNGEI47	4149	720471	1 - 439	15 - 453	
HNGEJ04	4150	932199	1 - 239	15 - 253	
HNGEJ22	4151	573066	1 - 182	15 - 196	
HNGEJ35	4152	934987	1 - 545	15 - 559	
					F16345, AA353081, A1054090, A1251944, AW169469, AW243945, AA489897, A1358008, A1251024, A1246061, AA594705, A1376197, A1567941, AL119563, A1927393, AW275432, Z94161, AC005081, AC004386, AL023807, AL031255, AL050318, AC006064, U91326, AC005778, AC005822, AC005971, AC004674, AL022336, AC007216, AC007055, AL133246, U02051, AL080242, AF030453, AL080243, AF045555, AL022326, AC002425, U95742, AC005088, AC005200, AF001549, AL109628, AL049636, AC005015, AC004491, AL008582, AC007011, AL133396, A1011930, AC002565, AC007406, AL031597, AC002357, AC005280, AC002504, AC002527, AC005527, AC003029, AC004148, AC003104, AC003966, AC005317, AC003982, AC002395, AP000689, AC006241, AC004913, Z85994, AC005796, AC004841, AC004922, AF001548, AC007283, AC007227, AL133163, AP000133, AP000211, AL021155, AL009183, Z773359, Y17293, AC005529, AC006274, AL132992, AL035587, AC006130, U95740, AL031846, L76568, AL023879, AC006126, AC007066, AC003957, AL049776, AJ003147, AC007050, AL050333, AP000355, AF001550, AL050307, AC006441, AC005049, AC007205, AC006530, AC002347, AC002991, AC004019, AC007191, AF047825, AP000690, AC022517, U85195, Z92542, Z84466, AC007371, AC004149, AC007312, AC004821, AE000658, AC007666, AL034549, AC007934, AC006121, AC006285, AL132712, AC005696, AD000812, Z99716, AC006544, AL022476, AC016025, AC004929, AC004883, AC009946, AC007225, U91323, AC004031, AC004213, AC005069, AF196969, AP000359, AL022163, AC004526, AL021808, AC006077, AC004383, AC007731, AC007308, AC005919, AF003626, AL049759, AF000493, AC004991, AC007239, AC005500, AC005562, AC004893, AP000255, AC005249, U78027, AC005755, AC002126, Z84467, AP000549, AC004859, AL034379, AL080313, AC005988, AL035071, AC005516, AC005189, AC007536, AC002470, AC002430, AL034420, Z68324, AF196779, AC004560, AC004797, AC007384, AL049540, AL117344, AC005993, AB022785, AF053556, Z83838, AL035422, and AP000228.
HNGEK30	4153	572864	1 - 263	15 - 277	

HNGEK44	4154	576745	1 - 442	15 - 456	N21074, AW089204, A1433104, H67851, AA323110, A1061076, AL031273, AC016027, AC016830, AC004408, AC006344, AC009721, AC000353, AC003029, AL096774, Z86090, AC005231, AL049830, AC004522, AC005383, AC005901, AC008115, AC018767, AC004841, AC006277, AC003098, AC006141, AF111169, AC005730, AP000555, AC005229, AC002418, AC004386, AC004216, AC003982, AF141325, AL020997, AL021939, AC007688, AC006071, AL049776, AC005899, AC005004, AL033525, AC002492, and AL031291.
HNGEK68	4155	753159	1 - 328	15 - 342	
HNGEL62	4156	958363	1 - 576	15 - 590	T83534.
HNGEL92	4157	572867	1 - 359	15 - 373	
HNGEM38	4158	573041	1 - 361	15 - 375	
HNGEM53	4159	860643	1 - 388	15 - 402	
HNGEN37	4160	663955	1 - 397	15 - 411	
HNGEN45	4161	572876	1 - 350	15 - 364	
HNGEP55	4162	732262	1 - 351	15 - 365	
HNGEP61	4163	576749	1 - 296	15 - 310	
HNGEP64	4164	860631	1 - 1144	15 - 1158	A1583142, AC004491, AL022165, AL034549, AC005015, AC005585, AC004104, AC002352, U63721, AC002045, AC004997, AL020997, AC005089, AC005412, AC002554, AC002400, and AC007425.
HNGEP70	4165	572858	1 - 359	15 - 373	
HNGEP75	4166	766574	1 - 422	15 - 436	
HNGEP77	4167	861710	1 - 417	15 - 431	H14806, AW410740, A1434025, AC009542, and AC009330.
HNGEP81	4168	778161	1 - 867	15 - 881	
HNGEQ07	4169	953647	1 - 616	15 - 630	AW407886, AW239264, and AR062112.
HNGEQ32	4170	572984	1 - 266	15 - 280	A1092509.
HNGEQ67	4171	860687	1 - 297	15 - 311	
HNGER25	4172	572873	1 - 85	15 - 99	AL021921, and U95738.
HNGER43	4173	699391	1 - 302	15 - 316	AC007563, AC000030, AL023095, Z93928, AC002523, AC005035, AF043945, and AL008634.
HNGER67	4174	578903	1 - 495	15 - 509	AF104455.
HNGER82	4175	945838	1 - 625	15 - 639	R16017, AA570454, R02443, R16118, T77361, R06273, and T77056.
HNGER84	4176	586451	1 - 355	15 - 369	A1763088, AL135549, AC010385, AJ223814, AJ223777, X99326, and AF042089.
HNGER96	4177	922996	1 - 505	15 - 519	
HNGES56	4178	733543	1 - 291	15 - 305	
HNGES59	4179	490034	1 - 600	15 - 614	F30908.
HNGES89	4180	573013	1 - 418	15 - 432	
HNGET07	4181	953618	1 - 397	15 - 411	
HNGET31	4182	506498	1 - 460	15 - 474	

HNGE167	4183	953529	1 - 356	15 - 370	AL046457, A1826263, AA604333, AW402063, AA359347, AA101689, AW021583, AA679936, AA846952, A1963720, AL044441, AA502104, N48230, A1732120, AA507824, A1561060, AA487621, A1686267, AA680243, A1696955, AA707833, AA665021, AW080120, AA666052, AA126450, AA548058, AW070892, AW302013, AA773153, AW102849, R79698, AA745326, A1635279, F17149, A1811809, AA806796, A1733755, R40056, AL042753, A1499588, AA610777, A1669453, AA508034, AA250819, AA639173, AA713626, AW440497, AL119713, AC005015, AC005081, AL020993, AL121603, AC002425, AL022316, AL096791, AC005071, U95740, AC004983, AC004150, AC006312, AL022163, AC003080, AL024507, AC007551, AC005736, AL049569, AP000240, AC005037, AC007227, AC009399, AC006449, U95742, AF088219, AC004019, AC002365, AC002350, AC005839, AL035079, AL121694, AL031577, AL023807, AL031283, AC004638, AL034429, AC007243, AC006115, AC005585, AC002492, AC005231, AL096774, AC005102, AC004263, AL021155, AC006116, AF109907, AL035072, AC005486, AC009516, Z97053, AC002470, AC002565, AC005996, AF045555, AC007216, AL022721, AC005089, AC004675, AL049869, Z68870, AC004216, AF053356, AL109827, AC006057, AC004821, AC004876, AC016025, AC002395, AP000689, AC002070, AP000557, AC004491, AC007546, AL050318, AC002314, AC005722, U47924, AC002310, AC004990, AL132992, AC004966, AP000201, AP000555, AL132777, AC007384, Z83840, AC005666, AC005519, AC006271, AC006211, AC004882, Z82201, AC004859, AF031078, U80017, AP000097, AL121655, AC007510, AL035423, AC005041, AC004531, AC006241, AC006261, AC005527, AL009179, AC002472, Z85986, AC005914, AC004686, AC005031, AF030876, AC007207, AC007387, AC003982, AL035071, AF196969, AC007664, U91323, AC005154, AL031311, AL021546, AL034451, AC004815, AC003681, AC006948, Z84469, AC004841, AC006285, Z93017, AP000133, AP000211, AC002301, AC005829, AL050341, AL031767, U91326, AC007225, AC007999, AL035695, AC002072, AL031659, AP000556, U82671, AC004699, AP000553, Z95116, AC005899, AC008372, AC002430, AL022322, AL080243, AJ246003, AC004878, AC008101, AC006547, AL031680, AC006111, AL021807, AC006388, AL109984, AP000493, AC004929, AC002429, AC002316, AL022315, AC002563, AL035415, AC005291, AC004668, AC005480, AC002400, AC004972, AC005783, AL078477, AC007676, AC007011, AC006537, AC003108, AC007919, AL022311, AC005288, AL049759, AP000209, AP000131, AC000004, AC006080, AC002984, AF038458, Z83838, AC006965, AC007388, AC007686, AC005844, AC005180, AC005193, AC005821, AC007298, AC007845, AC004560, AL031594, AJ010770, Z83822, AC006023, AC005529, AB023049, AC006207, Z99716, AL023879, AL021154, AL023575, AC005632, AC007421, AC005778, AP000346, U85195, AC005162, AC012384, AC004598, AJ006345, AC005358, AL035089, AC005726, AC004905, AC004813, AL136295, AF064861, AL133246, AF205588, AL049795, AL031584, AC004671, AL031427, AC007324, AC006544, AL109801, AC011718, AC006480, and AL035659.
HNGEU35	4184	853582	1 - 724	15 - 738	

HNGEU37	4185	860626	1 - 134	15 - 148	AA378548, and AC005071.
HNGEV33	4186	781207	1 - 400	15 - 414	
HNGEV34	4187	490914	1 - 517	15 - 531	<p>AW275432, AA601376, A1791659, C15966, AL048969, AW151247, AA730872, AA761606, A1521525, A1090377, AW020150, A1224583, AA761714, AA719564, A1926102, R23873, AA573067, R42954, AA831426, A1613459, A298365, AA501807, A1801563, AA586474, AA723132, AA493546, AA064983, AW270652, AA135761, C14614, AA504924, A1720671, AA174108, AA489390, AA525807, AW272389, AA565338, AA654705, AA661583, AA516242, AA470612, AA526542, AA297208, F23338, AA708751, AA55131, AW264548, AA503144, A1754421, A1879968, AA218684, AL134338, AA767558, A1309943, AA420787, AW008089, AA493245, AA350886, AA524604, AW194046, AW075296, D44672, AA738014, AA729350, A1049845, A1040313, A1910609, AA515165, A1678812, A1798521, AA084320, AA718906, AA984114, AA484892, AA808875, A1952885, A1760835, AA420801, AA533176, A1635440, A1148245, A1804539, T15873, A1925423, AL042667, AL042670, AA669711, A1128353, AA056619, AA482725, A1567402, AA653221, A1986251, AA813902, AA765768, R4331, AA601333, A1431232, AC008585, AC005520, AL079295, AC006132, AF111168, AC005399, AC009247, AL049757, AC005519, AP000037, AL023281, AL117337, AC005632, AP000555, AC007226, AL022334, AL122023, AL031680, AL133371, AC006430, AC005696, Z98946, AC004583, AC005730, AC005839, AL031295, AF067844, AC004491, AL031670, AL049694, AC002470, AC006531, AL033527, AC007263, AC005754, AB023048, AC005736, AC006468, AC005291, AC002302, AC005921, Z77249, Z93241, AL109865, AC004815, AC005829, AP000691, AC005234, AC006006, AC008115, AC005215, AL031311, AC007040, AC006241, AP000511, AL034554, AC004999, AC006205, Z98743, AL035086, AC008040, AP000114, AP000046, AC002449, AC007065, AC008072, AP000365, AC004019, AC004834, AC007390, AL022313, AL121655, AC006480, AC006001, AC004673, AC004890, AC008154, AC005011, AC004408, AL133448, AC005768, Z83844, AC000353, AC004386, AC007021, AC006511, AL034379, AL121769, AC002301, AL049830, AC005841, U91323, AC004832, AL031283, AL034548, AC002553, AF134726, AF205588, AP000099, AC003043, AP000359, AC005933, AL049766, AL034347, AP000552, U91326, Z84466, AL031123, AL030995, AL049794, U82828, Z98884, AC005229, AC005920, AC002400, AC006958, AL022302, AC008123, AC018633, AC002544, AP000036, D84394, AC006285, U47924, Z85986, AC002492, AC007298, AL049872, AC005081, AL121658, AC005484, AC004081, AC006079, AC010205, AC003108, AC005071, AC004802, AL133246, AC006597, AL035420, AC006101, Z82201, AL024509, Z99716, AP000350, Z86090, AC006115, AL031643, AC003101, Z75890, AC007421, AC004605, AL031121, AC004895, AC003007, AC004686, L78833, AC005015, AL031120, AC004526, U91327, AC004638, AC005013, AC004000, AC005060, AC008498, AC005914, AL133321, Z81369, AC002310, AC004967, AC005261, A1011930, Z95113, AF001550, AL031255, AC007917, AL035587, AB004907, AF033356, AL009181, AL096763, AC005924,</p>

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HNGEV38	4188	572882	1 - 313	15 - 327	
HNGEV40	4189	572894	1 - 302	15 - 316	AC006263.
HNGEV53	4190	573090	1 - 301	15 - 315	
HNGEV59	4191	576750	1 - 305	15 - 319	
HNGEV65	4192	750391	1 - 585	15 - 599	AA644587, AA135942, AA004231, AL044969, H30905, R01285, AI079521, R01173, and AC004223.
HNGEV70	4193	573089	1 - 128	15 - 142	
HNGEV75	4194	506312	1 - 246	15 - 260	
HNGEV86	4195	789128	1 - 89	15 - 103	AL034429.
HNGEV88	4196	750542	1 - 326	15 - 340	H23596, H40504, and H21110.
HNGEW18	4197	958328	1 - 336	15 - 350	
HNGEW76	4198	572874	1 - 276	15 - 290	AA362395, AW051064, AI085439, W25284, AA652057, AA649642, AI446464, AA125788, AA348859, AL037876, H13868, AA441788, N71724, R91744, AA329192, AI886176, AI064864, AA095511, AW419262, R76463, AW088058, AW074207, AA654627, AA199660, AA826032, T62712, AI439360, AI623696, F24284, T90706, R45369, AA337978, AA058859, AA368030, AL048616, AA491814, AA147516, AI299050, AW406447, T56472, R93061, AI281903, AW192154, AI371429, N23649, AA332991, AI423625, AA650244, AA199798, F32705, AI003172, AW274101, AA598997, AL138455, AA713767, AA364315, H00934, AA218645, W60516, H72666, AA134367, W95976, W95841, W00796, T53607, AI184354, AI537955, AA318652, AA365347, AL048925, AA654771, AA501722, R24205, AA702023, AA342958, N25296, AW069481, AI925556, H22147, AA714453, AW083402, AA657918, AW021917, AA878140, N66026, AI612032, AA678436, AA557325, F25276, AA127636, AI499503, AI977741, F35659, AA587256, AA888310, AA340003, AA614069, AI049634, R76777, AI348611, D82290, AA309460, T06556, AL135405, AW337237, H03415, AW088984, AA309389, AA828984, R69934, AA167741, R66878, N58534, AI305766, AI246796, AA879430, AW083364, AI926023, AA076632, AW103679, AW103383, AI709066, H16048, AA932099, AA489775, AA578141, H77643, AA581342, AA338522, AA919037, AA649705, AI863283, T16592, AA259245, AA733208, AA533725, R44592, W56200, AA021133, N29941, AW008317,

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HNGEX06	4199	935838	1 - 528	15 - 542	AL110505.
HNGEX35	4200	959230	1 - 362	15 - 376	
HNGEX76	4201	834919	1 - 323	15 - 337	AF132033.
HNGEX95	4202	572897	1 - 314	15 - 328	
HNGEY41	4203	973310	1 - 534	15 - 548	AL050310.
HNGEY50	4204	676067	1 - 295	15 - 309	

HNGEY60	4205	920375	1 - 462	15 - 476	
HNGEY80	4206	790222	1 - 414	15 - 428	AC007252.
HNGEY84	4207	752239	1 - 467	15 - 481	Z82195, AL049795, AP001039, AC005295, and AC004707.
HNGEZ45	4208	574462	1 - 405	15 - 419	
HNGFA28	4209	774277	1 - 666	15 - 680	
HNGFA39	4210	424813	1 - 471	15 - 485	
HNGFA41	4211	952235	1 - 135	15 - 149	
HNGFA67	4212	576719	1 - 305	15 - 319	
HNGFA80	4213	963490	1 - 613	15 - 627	C16718, AL041375, A1452836, A1090377, C16746, C16704, A831426, A1797998, A1309943, A1338021, AA410788, A1431513, A1973173, A1474127, A1984168, AA558366, AA228778, AA503298, A1310670, AA721645, A1078409, AA599712, AW089625, A1627917, A1349130, AA747234, A1744905, AW163763, AA679946, A1921706, AW008184, A1338117, A1926706, A1283938, N54538, A1755214, A1754105, AA176604, A1355246, A1754421, AW151201, A1754567, AW275432, A1697239, AA703818, A1697242, AW194046, AA570740, A1192465, AA483606, AW190484, A1697235, R73744, H84412, AW272294, A1610737, AA829036, A1244127, A1310787, A1266359, A1280535, AA225406, A1371208, AA299589, AA019003, A1565126, AA405726, A1915081, AA584207, AW338035, N42508, AA584765, AA568204, A1635028, AA311535, N25079, A1299442, F30158, A1800426, AW337805, A1598056, H30475, AW023111, AA297666, AA489390, A1753887, A1243793, A1249688, A1285493, W60077, A1270647, A1537694, AL035977, AA845659, A1580260, A1453155, A1620992, A1828742, D44899, A1745116, A1469564, AA603400, A1433131, H73550, A1038304, AA856815, T49633, A1290405, A1039125, AA503019, AA501460, A1310464, A1056177, A1865213, A1521525, A1870453, T60666, A1858165, A1865196, AW020150, A1817230, A1537800, A1251576, AA683069, A1801695, H61754, AA581240, AA584484, AW084445, A1923052, U17576, Z93931, A1139054, AL031588, AL035587, AC009509, AL050307, AC003663, AC003042, AC005940, AL021453, AC007227, AC006501, AC005619, AP000211, AB003151, AC005839, AC007688, AC005919, AC005913, AC004383, AL031447, AC006597, AL009181, AC008101, AC004858, U85195, L43411, AC002310, AC002395, AL050348, AP000353, AC002425, AC006441, AC004605, AC005519, AP000133, AL022318, A1099907, A1133246, AC006511, AL022476, AC003041, I34294, AL133445, AL080243, AC005921, AL024507, AC007917, AC002550, AL035086, AC006241, AL008719, AC005071, Z95114, AC004448, AC006101, AE000660, AC004805, AC005207, AC006059, AC005670, A1229041, AC000353, AC005527, AL031428, AL050312, AC007324, AC016027, AC007225, AC005255, AL109798, AL031622, AC009288, AC016830, AC005346, AC004211, AC005072, U95742, A121754, AC004967, AP000210, AP000132, AC005914, L39891, AF002991, AC005529, Z84469, AC006317, AL022316, AC009247, AC007262, AL096791, AC007216, AC004811, AF045555, AC007021, AL022326, AC005201, AL133448, AC004223, Z95126, AC004699, U80460, AC008545, AC004706, U07563.

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HNGFB08	4214	959738	1 - 365	15 - 379	
HNGFB52	4215	573575	1 - 325	15 - 339	
HNGFB57	4216	868072	1 - 249	15 - 263	
HNGFB74	4217	573024	1 - 160	15 - 174	
HNGFC71	4218	573160	1 - 352	15 - 366	
HNGFD63	4219	835997	1 - 458	15 - 472	AW247389, R61195, AL034418, AL049776, AC002551, AC005920, AC007707, AP000321, AC004520, AC006441, AC007934, AC005291, AC003072, AL021578, AC002351, AC005520, AC002115, AP000087, AP000167, Z85994, AP000121, AC004882, AC005529, AL033392, AC005620, and AP000226.
HNGFD75	4220	823462	1 - 354	15 - 368	
HNGFD85	4221	783467	1 - 394	15 - 408	AL049871.
HNGFD96	4222	968248	1 - 544	15 - 558	AA707443, H46169, and H51510.
HNGFF35	4223	805996	1 - 635	15 - 649	
HNGFG22	4224	573084	1 - 398	15 - 412	
HNGFG51	4225	725787	1 - 203	15 - 217	
HNGFG57	4226	860595	1 - 326	15 - 340	R06993, and AA779921.
HNGFG69	4227	926873	1 - 301	15 - 315	
HNGFH94	4228	966118	1 - 522	15 - 536	

HNGFI06	4229	935828	1 - 415	15 - 429	
HNGFI20	4230	578896	1 - 338	15 - 352	
HNGFI32	4231	693398	1 - 334	15 - 348	R98238, AC002306, and Z97192.
HNGFI81	4232	578892	1 - 402	15 - 416	
HNGFI27	4233	860591	1 - 382	15 - 396	
HNGFK28	4234	544726	1 - 977	15 - 991	
HNGFK44	4235	860589	1 - 255	15 - 269	
HNGFL04	4236	572833	1 - 330	15 - 344	
HNGFM50	4237	584729	1 - 392	15 - 406	D83779.
HNGFM74	4238	578884	1 - 510	15 - 524	
HNGFM79	4239	860585	1 - 287	15 - 301	AL049836.
HNGFN21	4240	572821	1 - 368	15 - 382	AA411753.
HNGFN56	4241	970740	1 - 337	15 - 351	
HNGFN65	4242	576698	1 - 473	15 - 487	
HNGFN96	4243	770209	1 - 281	15 - 295	AI306717, AI281622, AI270177, AI417586, AI065031, AA374797, AI251576, AI306232, AW274191, AI583466, AI002863, AA831801, AI559583, AA443778, AI798521, AW084173, AA832016, AI298995, AA443771, AI275989, AA205911, AW243793, AA229012, AA229730, T40629, AW019964, AA657910, AI133083, AI338526, AI955029, AW341955, AW439703, AI357628, AI499376, AI066646, H86579, AI471476, AI267356, AW242279, AA287502, AA761966, AI755202, H16875, AA496309, AA346870, AA573000, H50725, AW377926, AW028376, AA018923, AI982994, AA012829, H73306, N23919, AA226260, AI860535, AI278211, AI560073, AA126475, AI624379, AW392414, AA017240, AW408596, AA572813, AA704806, AA640252, AC007182, AC007563, AC006958, AC008040, AC005046, AC006511, Z85987, AC012627, AC004216, AC006973, AL049838, AC003976, AL049758, Z99496, AC003964, AL031985, AC005228, AB020868, AF165926, AC004999, AL049552, AL031429, Z83826, AC004797, AL031983, AL033527, AC005011, AC007225, AL078593, AF196970, AC007240, AC005697, AC006120, Z97054, AC005225, AC005004, AL035683, AL109847, Z98048, AF155238, AC005261, U52112, L47334, AL031280, AC006480, AC002390, AC003037, AC005632, AL096776, AC004067, U95740, AC004825, U50871, AL035252, AC005482, U91321, AC007376, AC007546, AC005057, AC004617, AC005874, AF134471, AL034420, AC005386, AC004003, AP000248, AC007160, AC007050, AL117258, AC002375, AL031291, AL132992, AL121578, AL031681, AL133445, AC009501, AC010200, AC005534, AC006137, AC007327, AF117829, AP000344, AC011456, AC005839, U82668, AP001058, L29074, AC005102, Z94056, AL139054, AL109628, AL049869, AC006116, AP000011, AL031663, AC007283, AC005737, AL024507, AC010206, AC006566, AF111168, AC007880, AC007536, AC003007, AC004975, AC004887, AB020863, AC006088, AC005366, AC005049, AL133355, AC005993, AL035420,

HNGFO46	4244	935135	1 - 255	15 - 269	AP000511, AL021937, AL096712, AF002993, Z86062, AC005048, AC004838, AC005593, AC003009, AC004817, Z82245, AL049631, AP000689, AC007368, AP000152, AC006040, AC006059, AB003151, AC003991, AC007312, AC006449, AE000659, AL034379, AC008119, AF111169, AC006388, Z95116, AC004814, AC004025, AL021154, AC004525, AC009946, AC009308, AL080243, AB023050, AC005207, AC002477, AC005095, AC006198, AC004103, AF055066, AL049766, AC007934, AF227510, AR036572, U91328, AC004832, AL049872, AL034582, AC005380, AC007263, AC004106, Z98941, AC004527, AL096703, AL022727, Z97055, AC004104, AL021918, Z84467, AC005233, AL035423, AC005878, AC004087, AL008987, AL096861, AP000692, AL035690, AL035551, AL049611, and AL035417.
HNGFO55	4245	572856	1 - 356	15 - 370	
HNGFO81	4246	526792	1 - 261	15 - 275	AC008981.
HNGFP02	4247	920483	1 - 336	15 - 350	
HNGFP08	4248	959730	1 - 362	15 - 376	AL008720.
HNGFP62	4249	573052	1 - 341	15 - 355	
HNGFP80	4250	931021	1 - 359	15 - 373	AC006453.
HNGFP93	4251	707332	1 - 347	15 - 361	AC007136.
HNGFQ36	4252	703715	1 - 358	15 - 372	
HNGFQ58	4253	576715	1 - 483	15 - 497	
HNGFR02	4254	920482	1 - 310	15 - 324	
HNGFR16	4255	573358	1 - 357	15 - 371	U51560, and Z80896.
HNGFR48	4256	860245	1 - 481	15 - 495	H80158.
HNGFR73	4257	646263	1 - 469	15 - 483	
HNGFR80	4258	576713	1 - 422	15 - 436	
HNGFR85	4259	572838	1 - 373	15 - 387	AC004605.
HNGFS46	4260	573094	1 - 403	15 - 417	
HNGFS58	4261	932396	1 - 315	15 - 329	
HNGFS71	4262	572828	1 - 328	15 - 342	Z68225.
HNGFT19	4263	671599	1 - 555	15 - 569	AL031055.
HNGFT77	4264	772335	1 - 396	15 - 410	
HNGFUI2	4265	971170	1 - 412	15 - 426	AL050337.
HNGFU28	4266	860576	1 - 260	15 - 274	
HNGFU40	4267	559450	1 - 355	15 - 369	
HNGFV03	4268	924670	1 - 197	15 - 211	AC005155.
HNGFV32	4269	806047	1 - 409	15 - 423	
HNGFW09	4270	924693	1 - 327	15 - 341	

HNGFW15	4271	578901	1 - 206	15 - 220	
HNGFW31	4272	578864	1 - 317	15 - 331	
HNGFW82	4273	839957	1 - 230	15 - 244	Z68756.
HNGFW96	4274	959715	1 - 461	15 - 475	
HNGGA08	4275	959637	1 - 294	15 - 308	
HNGGA10	4276	964820	1 - 364	15 - 378	
HNGGA20	4277	764502	1 - 435	15 - 449	AC006160.
HNGGA40	4278	506337	1 - 343	15 - 357	
HNGGA44	4279	577362	1 - 248	15 - 262	AC005220.
HNGGA53	4280	576212	1 - 417	15 - 431	AC002288, AC004111, AC007130, AC003950, ZR4487, AC005514, AC004905, AC003036, AC007030, AC005265, AL023807, AP000353, and AC022517.
HNGGA90	4281	572869	1 - 352	15 - 366	
HNGGB09	4282	881399	1 - 671	15 - 685	
HNGGE10	4283	964821	1 - 320	15 - 334	
HNGGE38	4284	576217	1 - 123	15 - 137	AC004583, and AC002041.
HNGGF02	4285	840277	1 - 289	15 - 303	
HNGGF03	4286	924587	1 - 371	15 - 385	
HNGGF06	4287	935709	1 - 361	15 - 375	AC008124.
HNGGF26	4288	577369	1 - 212	15 - 226	
HNGGF57	4289	576256	1 - 364	15 - 378	
HNGGG02	4290	920379	1 - 386	15 - 400	AF048728.
HNGGG10	4291	964818	1 - 296	15 - 310	
HNGGG15	4292	576294	1 - 314	15 - 328	
HNGGG18	4293	506304	1 - 318	15 - 332	
HNGGG22	4294	576267	1 - 263	15 - 277	
HNGGG25	4295	679153	1 - 99	15 - 113	
HNGGG26	4296	576298	1 - 320	15 - 334	
HNGGG50	4297	576295	1 - 372	15 - 386	
HNGGG56	4298	733510	1 - 297	15 - 311	
HNGGG63	4299	576296	1 - 365	15 - 379	
HNGGG76	4300	576231	1 - 359	15 - 373	
HNGGH38	4301	582695	1 - 330	15 - 344	H73720, AP000555, AL049588, Z85986, AC006130, AC005089, AL031282, AC006441, and U81831.
HNGGH48	4302	576705	1 - 349	15 - 363	
HNGGH57	4303	576278	1 - 172	15 - 186	
HNGGH64	4304	860426	1 - 410	15 - 424	

HNGGH74	4305	577192	1 - 332	15 - 346	
HNGGH78	4306	924908	1 - 419	15 - 433	
HNGGH95	4307	576214	1 - 330	15 - 344	
HNGGI08	4308	959639	1 - 316	15 - 330	
HNGGI52	4309	576270	1 - 352	15 - 366	
HNGGI58	4310	825371	1 - 103	15 - 117	
HNGGI81	4311	830081	1 - 274	15 - 288	H65090.
HNGGK31	4312	576259	1 - 58	15 - 72	
HNGGK53	4313	576253	1 - 296	15 - 310	
HNGGK86	4314	576247	1 - 313	15 - 327	AL023803.
HNGGK94	4315	576255	1 - 295	15 - 309	
HNGGL51	4316	576758	1 - 330	15 - 344	
HNGGM10	4317	964819	1 - 568	15 - 582	AC007766.
HNGGM41	4318	576284	1 - 356	15 - 370	
HNGGM56	4319	576219	1 - 356	15 - 370	
HNGGM67	4320	576220	1 - 367	15 - 381	
HNGGM76	4321	576287	1 - 286	15 - 300	AC005777.
HNGGM92	4322	576229	1 - 295	15 - 309	
HNGGN03	4323	924578	1 - 347	15 - 361	AC005325.
HNGGN04	4324	576263	1 - 267	15 - 281	AC006536.
HNGGN16	4325	576268	1 - 302	15 - 316	
HNGGN36	4326	708119	1 - 199	15 - 213	AW029269, AA077796, AI131261, H52283, AA496309, AI720943, AA666272, AA809179, AI417586, AW162303, AA629852, AW162047, AW161786, H86579, H30595, AA018923, AA012829, AI306717, H77442, W63553, T40629, AW084173, AW019964, AL038813, AI860535, AA946848, T06897, AI955029, AI332676, H30568, AW167909, AI357628, AI066646, AL037006, AI471476, AI475164, AW130427, AI755202, AA657910, R91633, AI833218, AL039309, AA424249, AI252828, AI254153, H79407, AI902426, AI254937, AA761036, AA174006, AI270149, AI251380, AI251949, AI252207, AA429481, AI251996, AI252979, AI254626, AI284684, AI251353, AI251298, AI255012, AI459866, AI254440, AW082076, AI251598, AI252933, AI223508, AI254658, AI241970, AW086319, AA665123, AI246059, AI255003, AI254673, AW086334, AI251976, AC004009, AL008715, AC008009, AC005881, U73330, AC002347, AW086334, AI251976, AC004009, AL008715, AC008009, AC005881, U73330, AC002347, AW086334, AI251976, AC004009, AL008715, AC008009, AC005881, U73330, AP001054, U47924, AC006312, AL049575, Z98946, AL022316, AC004797, Z93241, Z98044, AF042089, AL035685, AL008582, AC007981, Z83826, AC007993, AC015853, AC004542, Z98304, AP000052, AL023581, AC005190, AC005884, AC008372, AC005821, AL050318, AC005519, AC006057, AC006317, AC005666, Z75890, AP001050, AL023281, AL049570,

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HNGGN64	4327	577319	1 - 413	15 - 427	AC004592.
HNGGN94	4328	967253	1 - 304	15 - 318	
HNGGO01	4329	916754	1 - 432	15 - 446	
HNGGO14	4330	860246	1 - 314	15 - 328	AL022315.
HNGGO25	4331	576277	1 - 308	15 - 322	AL031279.
HNGGQ31	4332	576238	1 - 394	15 - 408	AC006013.
HNGGQ41	4333	712426	1 - 672	15 - 686	H71828, H71829, R97233, and R97234.
HNGGQ65	4334	576249	1 - 134	15 - 148	AB014078, AP000514, AC004209, and AC006139.
HNGGQ89	4335	577327	1 - 324	15 - 338	AL031033.
HNGGR01	4336	916753	1 - 843	15 - 857	AA297029, H71258, H49211, T81141, R81151, AW085137, N58701, AA814092, AW244149, AC003007, AF001549, AC002045, AL078613, Z98200, AC006000, and Z96074.
HNGGR10	4337	964815	1 - 241	15 - 255	
HNGGR17	4338	576250	1 - 215	15 - 229	
HNGGR43	4339	576246	1 - 433	15 - 447	
HNGGR74	4340	765698	1 - 244	15 - 258	
HNGGS09	4341	970861	1 - 386	15 - 400	
HNGGS26	4342	825369	1 - 398	15 - 412	AC005630, AC006328, AC004460, AC005154, and AC006312.
HNGGS33	4343	576305	1 - 414	15 - 428	
HNGGS41	4344	576308	1 - 64	15 - 78	
HNGGS66	4345	576312	1 - 401	15 - 415	
HNGGS67	4346	751781	1 - 248	15 - 262	
HNGGS73	4347	576740	1 - 391	15 - 405	AL034548, and AL035467.

HNGGS78	4348	576311	1 - 349	15 - 363	
HNGGT44	4349	576297	1 - 313	15 - 327	
HNGGT46	4350	719127	1 - 307	15 - 321	
HNGGT55	4351	576302	1 - 350	15 - 364	
HNGGT57	4352	576301	1 - 246	15 - 260	
HNGGT58	4353	576299	1 - 362	15 - 376	AC006212.
HNGGT62	4354	725750	1 - 117	15 - 131	
HNGGV07	4355	953549	1 - 276	15 - 290	
HNGGV55	4356	576313	1 - 286	15 - 300	
HNGGV70	4357	781247	1 - 497	15 - 511	
HNGGV95	4358	795920	1 - 423	15 - 437	AA486885, AA582911, AA644207, AA522942, AA873560, AA523815, AA487858, AA595825, AA088202, R95704, AW104748, AA196796, AA719080, AA480790, AA488573, R91159, AA620464, AW080134, AW162049, AA504871, AI929531, AI339850, AI469003, AL038785, AI962050, AI567674, AA111909, AW440836, AI570261, AI133636, AW029038, AA713815, AI625244, AA482711, AA634146, AI679782, AI251436, AA634145, AI251002, N22018, AA496260, AA837084, AA483068, AI890923, AW166815, AA115968, AI917271, AA550758, AA531372, AI049722, AI120674, C06458, T08438, AA768905, AA348929, AI368745, U51696, AA151980, AA767376, AA729721, AI608626, AA190911, AI918421, AA312845, AA113186, C05755, T94075, AA159052, AA132833, C06327, AA099892, AL119391, AA192470, R23229, AA045894, AA714055, AW131034, AA826303, AA923516, AW088616, AA515051, AA663486, AA533725, H78195, AA810370, R79819, H85382, AA079707, AI904894, F17761, AI281468, AA593247, AA678436, AI499134, AA652764, H04276, AI358571, AW075511, AW300625, AA340747, AA303161, AA604854, AA548689, AI362368, AA861959, AI446464, AA846936, AA573020, AA837677, AA670468, AA493708, AA623002, AA492166, AA133130, AA670158, AA583955, AW419118, F09736, AA521399, AA252763, AW079659, AA194761, AA525824, AA856858, AA491284, AA554319, T56472, AA709005, AA630925, AA906889, AA682912, AI298710, AA649705, AW439558, AA171416, AA721981, H43312, N55273, AA521323, AA644538, AA577906, AA469451, AI064864, AI610159, T52733, AA603156, AA069022, R97934, N25296, AI278997, AA346458, T07451, F29989, AA708352, AA599920, AI365988, AW406755, AA156538, AA280632, AA630030, AA490183, AA765170, AA079101, AW193432, AA483223, AI982525, AI471543, AA602528, AI547286, T53128, AI471481, AA644551, AA551503, AA635442, AA654771, AA970213, AA654761, AA352803, AA324164, AA653618, AA834755, AA338486, AI284640, AA370035, AA664015, AL046409, AI358229, T15897, AA604869, T28550, AA350859, D57369, AI061334, AA491814, AA679514, N59782, AA143516, AA720548, AI568678, AI754955, W79504, AI859742, AA115165, AA199616, AA633582, AA446657, N38987, AA825455, R88421, AA569214, AA973803, AA134335, AA302963, AI299050, AA668578, AL041412, AA284179, AI358343, AA828042, AA513972, AA503283,

H79151, AA113861, AA781010, AI801600, AI679045, AI708009, AA804379, AA649642, H02877, AA568778, AA199853, AA610491, AI683577, C75026, T29180, AI281881, AA394271, AW301350, AL079812, AW303196, AA908687, AW243960, H88666, AW274349, AI469624, AA713715, AA993656, AA639248, AA584881, AC010582, AC005585, AC007628, AC005484, AC007239, AC007542, AL034451, AL021578, AP000352, AC006518, AP000157, AP000014, AC006480, AF015160, U14694, AF015163, AF060568, AF001548, Z98950, AC000119, U47924, AC004832, AP000695, AF015166, AL033381, M63543, M63544, AC007911, AB020874, U91327, AL132987, AC007041, AF015171, AP001172, AB026899, AC007103, AC005589, AC004853, AF015170, AC005144, AC004934, AC009509, AC004542, AC004638, AC004408, AC002094, AC016026, AP000500, AF031078, AF030876, AF045555, U12580, AL021878, AF055066, AC005081, U89335, S75337, AC002067, U14695, AC006222, AC004458, AL049777, AC005772, Z97196, AF015162, U12582, X67277, AC005164, U50871, Z82214, AC005722, AC004861, AC009028, AC005530, AP000954, AC004785, AC004981, AC007917, AF015158, AB019438, AL031709, AP000563, AP000133, AP000211, AL021939, AC006000, AF015167, Z84478, AC007436, AC002477, AC008055, U12583, U50570, U14698, AC008126, AC004019, AC006352, AC005520, AC004692, AL031904, AC005552, AP000519, AC006511, AL049633, AF015169, AC004506, AC003003, AC006116, AC006538, AF064864, AC004675, AC005046, AC000052, AC007684, AC005799, AP000456, AF088219, AC003985, AC007228, AC007319, AC006296, AL031655, AF015168, AC002456, AL121748, AC004690, AB023056, AC006561, AF015161, AL022576, AC004613, S75201, Z99297, AC004593, AL035089, AC005399, A39972, AC007845, AC005694, AC006285, AC002431, AL096829, U14700, AL031653, AC002059, AP000193, AP000050, AP000311, Z73986, AL034400, AL049589, AP000117, Z99758, AC004885, AF015165, AC005527, AC005495, AC008062, AC005156, AC007558, AC004915, AC016025, AC007056, AC007193, U14719, AC005999, AL078603, AC005207, AC006150, AF164343, AC005529, AC004808, AC005040, AC006312, AC006371, AC003088, AL109733, AC005821, AC005154, AC005521, AL035461, AC004702, U14718, AC004492, AC002487, AC004417, AL049764, AC007250, Z68328, AL022157, AL022393, AL031905, AP000156, AL035695, AL049642, Z82211, AC004027, AC006011, AL135746, U12584, AC006548, AC002449, AP000080, AC007245, AF029308, AC005503, AC000372, AL035415, AF196779, AL117353, AC004825, AC003998, AL050318, U14712, AC006441, AL109842, AL031770, AC005901, AC007156, U12581, AL049869, Z84470, AL022477, X58156, AC006597, AC005091, AC004796, Z98941, AC007687, AL033525, Z95114, AC006036, AL078644, AC004884, Z69921, AC004385, AC005084, AC005018, AC000062, AC007870, AC004103, AC004592, L29074, L00352, M63005, M63480, AC007565, AC007360, AP000093, and AL008633.					
HNGGX46	4359	868071	1 - 327	15 - 341	
HNGGX49	4360	860551	1 - 318	15 - 332	AC006482.
HNGGX91	4361	576188	1 - 266	15 - 280	

HNGGX93	4362	576193	1 - 263	15 - 277	Z64732.
HNGGX95	4363	576222	1 - 279	15 - 293	
HNGHA08	4364	953539	1 - 399	15 - 413	
HNGHA10	4365	860553	1 - 584	15 - 598	AC005304.
HNGHA47	4366	576213	1 - 337	15 - 351	
HNGHA70	4367	576300	1 - 378	15 - 392	AA601995, AA565285, AW151732, AA551798, AC006960, AC002119, AF064860, AC005988, AC008372, AC005738, AB001523, AC006480, AL035658, AL096712, AL121655, AC003075, AC004259, AC004600, AP000558, AC006017, AC005089, AL021391, AC009516, AL096794, AL121603, AL034343, AC003681, AC004231, Z82244, AL021877, AL035464, AC005730, AC007371, AB000882, AC006445, AL031289, AL020997, AC006111, and AC005914.
HNGHA77	4368	772279	1 - 447	15 - 461	
HNGHB07	4369	860552	1 - 372	15 - 386	
HNGHB31	4370	576306	1 - 537	15 - 551	AA458724.
HNGHB33	4371	506261	1 - 128	15 - 142	
HNGHB48	4372	463007	1 - 625	15 - 639	
HNGHB55	4373	733509	1 - 506	15 - 520	AL132987.
HNGHB80	4374	576769	1 - 517	15 - 531	AI920851, AA338474, T27234, AA326098, AW317023, R68640, AI818313, AA829693, AA370883, AA366269, AC006255, AC002350, AC007052, AF111167, AC009891, AL117258, Z75890, AL023281, AF179633, AL035470, AC002289, AL035698, AC006409, AL050321, Z99128, AP000210, AP000132, AP000248, AC006101, AL133246, AF152365, AC003045, AP000300, AP000045, AP000113, AC002543, and AC005027.
HNGHB91	4375	576215	1 - 515	15 - 529	
HNGHD04	4376	932099	1 - 327	15 - 341	
HNGHD09	4377	860544	1 - 394	15 - 408	U91326, and AC002544.
HNGHD22	4378	576314	1 - 303	15 - 317	Z83733, and AL049749.
HNGHD25	4379	506262	1 - 306	15 - 320	
HNGHD59	4380	836226	1 - 344	15 - 358	
HNGHD67	4381	576317	1 - 430	15 - 444	AC004520.
HNGHE07	4382	953540	1 - 333	15 - 347	
HNGHE17	4383	576209	1 - 330	15 - 344	
HNGHE52	4384	576197	1 - 312	15 - 326	AC002038, AC006352, AC002041, AP000543, AC006359, and AC002307.
HNGHE56	4385	577124	1 - 344	15 - 358	
HNGHE62	4386	576202	1 - 266	15 - 280	AA864653, AI089093, AI470199, AA757250, AI038529, AA654837, HI2636, AI612981, T61868, AA012846, AI658809, AA582114, AA115234, AA115354, AC004972, AL021330, Z93018, AC006924, AC006020, AL031684, AL121866, AL021182, Z70719, AC008013, AB023048, AP000511, AC002072, AF027598, Z82200, AC004474, AL034485, AL022153, AC007165,

HNGHE69	4387	753107	1 - 503	15 - 517	AC002527, AL021939, U78308, AC005864, U76377, AL023878, AL079300, AF095725, AL078599, AC019014, AL009029, AC009946, AL109659, AC005908, AC006952, Z74409, AC003015, AC002299, AC007685, AL033504, AC004103, AC004947, AC007159, AC004099, AL121593, AC006961, AC005613, Z82212, AC006036, AC005084, AC006432, AC005832, AL022154, AL031116, AC002067, U95743, AF003627, Z98046, AL133353, AC005875, AC005247, AC002122, AB020871, AP000695, AC007262, AP000696, AC004014, AC005048, AC006478, AL022401, AL035660, AL033521, AC005771, E05591, E05593, E05595, D10871, AL109830, AL021307, and AC004125.
HNGHE95	4388	779951	1 - 198	15 - 212	AP000024.
HNGHG15	4389	971736	1 - 382	15 - 396	
HNGHG22	4390	577414	1 - 326	15 - 340	
HNGHG56	4391	576230	1 - 353	15 - 367	AC005033, and AC006544.
HNGHG68	4392	576232	1 - 334	15 - 348	AC004536.
HNGHG71	4393	576218	1 - 346	15 - 360	AC002351.
HNGHJ26	4394	924570	1 - 379	15 - 393	
HNGHK13	4395	577354	1 - 334	15 - 348	
HNGHK42	4396	582685	1 - 301	15 - 315	
HNGHK44	4397	576208	1 - 281	15 - 295	AL050342.
HNGHK46	4398	576205	1 - 308	15 - 322	
HNGHK48	4399	576206	1 - 320	15 - 334	
HNGHK50	4400	576195	1 - 364	15 - 378	
HNGHK53	4401	576191	1 - 343	15 - 357	AL034343.
HNGHK68	4402	576207	1 - 192	15 - 206	AC006120.
HNGHK77	4403	772277	1 - 482	15 - 496	
HNGHL10	4404	964814	1 - 352	15 - 366	
HNGHL20	4405	973969	1 - 550	15 - 564	AC000067, AL021332, AL034548, AF064860, AC010197, and U95740.
HNGHL22	4406	576326	1 - 363	15 - 377	AI052117, AI057562, AI369836, AI360398, R84933, AI289003, AI870646, AA767953, AI672430, AW274266, and AI926637.
HNGHLS1	4407	576223	1 - 221	15 - 235	Z54246.
HNGHLS2	4408	576226	1 - 414	15 - 428	
HNGHL65	4409	576320	1 - 243	15 - 257	AC005375.
HNGHL76	4410	506269	1 - 348	15 - 362	AC005953.
HNGHL77	4411	772283	1 - 293	15 - 307	
HNGHM33	4412	576741	1 - 302	15 - 316	
HNGHM36	4413	576325	1 - 355	15 - 369	

HNGHM51	4414	713805	1 - 394	15 - 408	AL034402, and AL049871.
HNGHN22	4415	421742	1 - 433	15 - 447	
HNGHN40	4416	576165	1 - 244	15 - 258	
HNGHN42	4417	576111	1 - 237	15 - 251	
HNGHN52	4418	576681	1 - 341	15 - 355	AA393776, A1149821, A1339278, AA436071, A1125367, and AA397838.
HNGHN56	4419	733881	1 - 416	15 - 430	A1183881, A1085895, AW014092, AL023656, AL121588, AL132826, AL035090, Z94722, AL008627, AL021877, and AL033381.
HNGHN70	4420	576108	1 - 434	15 - 448	
HNGHN75	4421	576110	1 - 427	15 - 441	
HNGHN76	4422	576170	1 - 218	15 - 232	
HNGHN86	4423	785566	1 - 203	15 - 217	AA456578, A1471887, A1198588, AA635739, AL042757, A1873761, AA478355, AA226715, A1955807, AA452832, AA493695, W01230, AA610491, AA584876, A1110688, AA493975, AW084466, AW275510, AA634889, N49368, A1687343, A1308402, A1700109, A1120086, AL119984, A1345157, AW089625, AA372481, AA702729, AW002350, A1133297, AW069769, A1278087, A1953275, AA279421, A1635819, AA808877, AL046409, A1431303, AW302903, AW263415, AA633753, AA019312, AL037554, AW269117, AA224083, AA780503, A1932599, A1470646, A1133164, AA497023, AA618452, AA724333, A1005388, AW023990, AW270657, AA493136, AL041690, A1305766, C15893, AL037683, AW168618, AW268973, AL048925, AA708664, AL041453, A1344812, AL043009, A1334464, AW193461, AA468022, A1926855, AA564570, AW270343, A1340641, AA719524, AA908687, AA501762, AA584167, AL041444, A1223604, AA629872, A1873852, AW080777, AL045053, AA551975, A1039584, H25921, AA356089, A1932493, AA541423, AW193265, AA478297, A1311927, AA613345, AA531079, A1691091, AL118991, A1350211, AA569240, A1754658, AW131249, A1860013, AA455483, A1633390, AA018283, AA487621, T06754, A1927116, AA488746, A1250083, AA065093, A1912383, AL037040, AL043289, AA831132, A1479966, A1284640, AA299189, AA380354, AA613397, A1584186, A1933534, AW149313, AL138455, A1954260, AA774059, A1207496, AA297769, A1525319, A1217936, A1275355, AA639326, AL038799, AA127426, AA663170, AA326372, AL042853, AW104030, AL040061, T92271, R35746, AW020340, A1003255, AA715267, A1101689, A1268334, A1268336, F07743, AA992891, AA402129, A1754253, AA715255, AA581903, T41247, A1006997, AC007514, AC002385, AC006556, AL049699, AC004491, AC005745, AC006568, AC007206, AC006017, AP000170, AC007114, AC004150, AL022326, AP000550, AL031577, AC007708, AC008018, AL049576, AC008079, AC009288, AC005923, AF111168, AC007666, AC006285, Z83826, AC008039, AF109907, AC006022, AL118507, AC006251, AC005696, AL031665, AC005871, AL008718, AL133445, AC005829, AC000029, AC004913, AC006004, AL049569, AC007421, Z82244, AC012398, Z83840, AC006059, Z93943, AC010072, AC006014, AC004519, AL035461, AC004024, AC007214, AC007879, AC002470, AC004227, AC007637, AC008268, AL035419, AC003986, AL135783,

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HNGHN93	4424	506259	1 - 342	15 - 356	
HNGHN94	4425	970856	1 - 423	15 - 437	
HNGHN95	4426	576127	1 - 426	15 - 440	Z96194.
HNGHO02	4427	920373	1 - 329	15 - 343	
HNGHO10	4428	964804	1 - 305	15 - 319	
HNGHO15	4429	576168	1 - 213	15 - 227	
HNGHO26	4430	420281	1 - 236	15 - 250	AC010168.
HNGHO28	4431	576173	1 - 361	15 - 375	AC007563.
HNGHO32	4432	575735	1 - 368	15 - 382	
HNGHO36	4433	576142	1 - 367	15 - 381	
HNGHO62	4434	840278	1 - 311	15 - 325	
HNGHO66	4435	576174	1 - 369	15 - 383	
HNGHP28	4436	576178	1 - 294	15 - 308	

HNGHP66	4437	576136	1 - 126	15 - 140	
HNGHP74	4438	577357	1 - 192	15 - 206	
HNGHP91	4439	576053	1 - 225	15 - 239	
HNGHP95	4440	577335	1 - 412	15 - 426	AC006352, AC007028, AB019440, AB019438, and AB019437.
HNGHQ27	4441	683507	1 - 331	15 - 345	
HNGHQ43	4442	576262	1 - 429	15 - 443	
HNGHQ55	4443	576144	1 - 237	15 - 251	AW407632, AI270120, AA937809, AA968509, AA305492, AA502207, AI709174, AA947369, AA730916, AI521525, AA557945, AA135761, AI537368, AA809104, AI821945, AW020150, AA492105, AA661948, AA747480, AI358501, AA525407, AA297496, AA077619, AI041681, AI041682, AA135988, HI5241, AA229159, AI289505, AW068580, Z23147, AA665330, AA015948, R98218, N22153, AA441788, AA847427, F23274, AA748140, F34826, AI679045, AA858380, AA669251, R70883, T49013, F29989, AA847508, AA229988, AI246884, T05684, AI049722, AL039930, AA714073, AL045476, AW080134, AA357987, AA229034, AA351808, AI284640, AI298079, AA598892, H02631, N35492, AA507990, AI572560, AA558003, AA187277, AA226142, AA778962, AI285453, AI358343, AI624379, AI499954, AW105737, AA181070, AI636422, AA742815, AA991792, AI249688, AI524022, AW410715, AA377730, T49933, AW190484, AA664604, AI471827, AW073498, AI929410, AI753672, AI865196, AI590459, AI750950, AW151541, AI924207, AI135811, AA670456, AA569220, AW193609, AI917891, AL035460, M87898, AC009501, AL117258, AC002059, AC004531, AC005253, AF217403, AC007055, AC006275, AC004685, S42653, AC000394, AC006312, AC005261, S77605, AL049829, AL049835, AC005568, AC005516, AC004841, AC005550, AL121603, AC002400, AL136168, AC002425, AF091512, Z85987, Z97630, AL049569, AC005081, AF024534, M87914, AL031295, AC004900, AL035697, AC004643, M87919, AC005578, S70707, AC005102, AL121658, AC007358, AL035659, Z97832, AJ003147, AL021154, U75285, AC004702, U47924, AC006449, AC006552, AC009731, S75337, AL049830, AP000225, AC002054, AC005104, AP000704, AP000356, AL049760, AF001550, AC004791, AF109907, AL031673, Z82179, Z49236, AP000008, AC005086, AL022318, AL022336, AC005046, AJ006995, AC003037, AF001548, AF085747, AC004955, AC005899, AC006543, AC003098, U95742, AC006071, AP000467, AC007199, Z30993, AC005318, AC000087, AF196969, AC005585, AC009946, AC010077, AC004834, U96629, AC007216, AC006017, AC004560, AC006130, AC005581, AC005014, AC020663, AC005921, AL034351, AC009247, AF134726, AC009516, AC005295, Z83838, AL034402, AC004805, AC005280, AL031729, AC005726, AC005781, AC005082, AC006241, AF139813, AL031680, AF196970, AD000092, AC004079, AC006059, AF165926, AL031767, AC006538, AP001068, AC005256, AC000025, AC004644, AC006111, AC005088, AC005919, AC006544, AC005920, AP000116, AC005911, AL049869, AC004131, AC010205, AP000555, AC002994, AC006157, AL096761, AL008718, AL031591, M87918, AC006480, AL109798, AL021546, AC007686, Z84487, AL049653, AL109963,

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HNGHQ72	4444	576105	1 - 431	15 - 445	AC000091, AF012130, and AF012131.
HNGHQ76	4445	770126	1 - 234	15 - 248	
HNGHQ96	4446	723008	1 - 428	15 - 442	
HNGHR04	4447	576196	1 - 435	15 - 449	
HNGHR79	4448	576199	1 - 423	15 - 437	
HNGHR83	4449	576210	1 - 426	15 - 440	AL139054.
HNGHT06	4450	935706	1 - 361	15 - 375	AA204714, AA487224, AI267391, AI267160, AW438516, T59853, AA128726, AI267405, AA774106, T51817, T52748, AI267270, AC004902, X82942, M21305, M77220, AF002202, and M77221.
HNGHT92	4451	576149	1 - 235	15 - 249	
HNGHY07	4452	935531	1 - 380	15 - 394	
HNGHY31	4453	577363	1 - 433	15 - 447	
HNGHY54	4454	730769	1 - 312	15 - 326	
HNGHY78	4455	576139	1 - 318	15 - 332	
HNGHZ17	4456	860532	1 - 430	15 - 444	
HNGHZ48	4457	576181	1 - 137	15 - 151	
HNGHZ51	4458	716649	1 - 300	15 - 314	
HNGIA19	4459	576269	1 - 433	15 - 447	
HNGIA40	4460	576155	1 - 432	15 - 446	
HNGIA66	4461	678887	1 - 430	15 - 444	
HNGIC34	4462	934280	1 - 462	15 - 476	
HNGIC67	4463	576177	1 - 297	15 - 311	
HNGID03	4464	921946	1 - 249	15 - 263	
HNGID11	4465	967226	1 - 338	15 - 352	
HNGID15	4466	660299	1 - 432	15 - 446	AL133216.

HNGID16	4467	576114	1 - 329	15 - 343	AC005072, and AF006752. Z68324.
HNGID33	4468	868069	1 - 110	15 - 124	
HNGID67	4469	751668	1 - 334	15 - 348	
HNGID78	4470	576117	1 - 386	15 - 400	
HNGID80	4471	576120	1 - 352	15 - 366	AC003976.
HNGID89	4472	577358	1 - 196	15 - 210	
HNGID91	4473	577189	1 - 430	15 - 444	
HNGIH02	4474	920362	1 - 339	15 - 353	
HNGIH56	4475	576122	1 - 233	15 - 247	AL079339.
HNGIH94	4476	576123	1 - 260	15 - 274	
HNGI116	4477	576154	1 - 77	15 - 91	
HNGI147	4478	576156	1 - 175	15 - 189	
HNGI150	4479	915340	1 - 319	15 - 333	AL168289, AC003968, AC003960, AJ009632, Z84477, AC006374, AC008064, AC004051, AL133224, AC005156, AC000119, AC004137, AP000701, and AC006254.
HNGI174	4480	576158	1 - 367	15 - 381	
HNGI176	4481	576153	1 - 99	15 - 113	
HNGI185	4482	576102	1 - 274	15 - 288	
HNGI101	4483	916748	1 - 345	15 - 359	AC005251.
HNGI105	4484	925597	1 - 325	15 - 339	
HNGI111	4485	964809	1 - 334	15 - 348	
HNGI159	4486	860526	1 - 311	15 - 325	
HNGI166	4487	576224	1 - 152	15 - 166	AC005251.
HNGI167	4488	506355	1 - 373	15 - 387	
HNGI196	4489	779901	1 - 436	15 - 450	
HNGI141	4490	712362	1 - 238	15 - 252	
HNGI142	4491	713817	1 - 316	15 - 330	AC005251.
HNGI177	4492	772230	1 - 423	15 - 437	
HNGI127	4493	839952	1 - 500	15 - 514	
HNGI143	4494	715328	1 - 437	15 - 451	
HNGIM04	4495	615308	1 - 438	15 - 452	AC005251.
HNGIM46	4496	653221	1 - 428	15 - 442	
HNGIM76	4497	770078	1 - 263	15 - 277	
HNGIM90	4498	788715	1 - 341	15 - 355	

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HNGIM92	4499	783495	1 - 245	15 - 259	AC007226, AC007216, and U95742.
TINGIN11	4500	964991	1 - 553	15 - 567	
HNGIN18	4501	666515	1 - 436	15 - 450	
HNGIN28	4502	860521	1 - 440	15 - 454	
HNGIO15	4503	660320	1 - 392	15 - 406	
HNGIO77	4504	576857	1 - 365	15 - 379	AL050318.
HNGIP30	4505	577338	1 - 324	15 - 338	AL633157.
HNGIP39	4506	840215	1 - 340	15 - 354	AW450501, AL444815, AL444830, and C20642.
HNGIP42	4507	860518	1 - 377	15 - 391	
HNGIP72	4508	575752	1 - 321	15 - 335	
HNGIQ28	4509	860510	1 - 422	15 - 436	
HNGIQ43	4510	715324	1 - 405	15 - 419	N52389, and AC006487.
HNGIQ48	4511	720944	1 - 406	15 - 420	
HNGIQ66	4512	506352	1 - 345	15 - 359	AP001550.
HNGIR34	4513	719088	1 - 422	15 - 436	
HNGIR92	4514	524799	1 - 382	15 - 396	AA642060, AW021583, AA364701, AL471543, AA630362, AA320748, AW270382, AA302308, AA828680, AA121651, AA534010, AA535406, AA829106, AL625292, D25870, AW245747, AA508509, AA515549, AA310158, AA947547, AA584752, AL672135, AA338522, AA346692, AA384502, AA614069, AA584201, AL674873, AA482801, R65755, AA503600, AL343137, AL109842, AL008635, AP000230, Z83840, AP000144, AC004098, AC006251, AL022326, AC006430, AC009516, Z98200, AC002350, AC007488, AC004254, AP000330, AL021937, Z99716, AL121658, U95740, AL022238, AC010200, AC000052, AL022476, Z14320, AC002310, AL023807, X87344, AC004019, AC005412, AL080243, AC005041, AC005778, AC008372, AC005736, AC006111, AC005324, AL117694, AC004526, AC005280, AC007676, AL035079, AP000352, AC005251, U85195, Z85986, AL023284, AE000658, AC002985, AC005197, AL122003, AL031848, Z93017, AC008079, AC002045, AD000092, AC006271, AL109984, AL022318, AC005212, AL078581, AP000356, AL121603, AF217403, AC007684, AC005181, AC016027, AP000553, AC016830, U91326, AB001523, AC006115, AC006449, AC006001, U95742, Z69919, AF055066, AP000556, AC007216, AL109837, AC005888, AC007193,

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HNGIS13	4515	575753	1 - 433	15 - 447	
HNGIS30	4516	575758	1 - 387	15 - 401	
HNGIT70	4517	953890	1 - 337	15 - 351	AP000289, AP000042, and AP000110.
HNGIU55	4518	576804	1 - 356	15 - 370	T89425, AA767864, AW182499, AC005048, AL096791, AC002288, AL049776, AC005335, AC003041, AL121658, AL133163, Z97053, AL024498, AC005822, AL096712, AJ004799, AL096677, AC007773, AP000152, and AC005321.
HNGIU78	4519	666261	1 - 1165	15 - 1179	AI990528, N32583, AI912629, AI797685, AW271508, N48797, N63434, AA028097, AA600208, AI625030, AI400958, AI634765, AI476166, AA028193, N53089, AA027192, AA983548, AI275119, N95741, AI985384, AI089985, AI436753, H46571, AA948552, AI961496, N41920, AW268829, H82459, H30219, AA761602, AA595696, AA702431, AA813396, H57726, AA204768, AI357228, AA973078, H82509, AI650605, AI954387, H89069, AA279240, AI572804, AA027191, AI000790, AI221539, N45589, T87206, R22923, AA456515, AI805811, AI521168, AI253183, AA815372, H30888, AL119319, AL039912, AW392670, AL119484, AL119324, AL134527, AL119335, U46347, AL119391, AL134525, U46351, AL119457, AL119522, AW363220, AW384394, AL119363, AL119497, AL119355, U46341, AL119444, AW372827, Z95396, AL042542, AL043003, U46346, AI064830, AB026436, AR043113, AR066454, AR060234, and A81671.
HNGIV01	4520	913687	1 - 483	15 - 497	
HNGIV24	4521	766775	1 - 198	15 - 212	
HNGIV81	4522	777970	1 - 720	15 - 734	AL049743.
HNGIW70	4523	883086	1 - 572	15 - 586	H90844, AF111168, Z85986, AP000088, AC007565, AC010197, AP000556, AC004167, AC002470, AC009516, AC004526, AC004030, AP000228, AF111169, AC006160, AP000140, AC004560, AC006120, AC006509, U91326, AP000552, AL031295, AC007546, Z84469, AL079342, and AC005940.
HNGIW73	4524	764456	1 - 345	15 - 359	
HNGIY22	4525	674660	1 - 261	15 - 275	
HNGIY36	4526	707323	1 - 182	15 - 196	

HNGIY56	4527	868065	1 - 339	15 - 353	
HNGIY60	4528	740404	1 - 148	15 - 162	AA48018, and AB016816.
HNGIY79	4529	775229	1 - 518	15 - 532	AA306200, H09834, and Z99714.
HNGIY92	4530	792737	1 - 349	15 - 363	AI268789, AL031297, and AL021155.
HNGIZ36	4531	670962	1 - 388	15 - 402	
HNGIZ56	4532	733439	1 - 303	15 - 317	AC006465.
HNGIZ69	4533	757599	1 - 423	15 - 437	
HNGIZ82	4534	668704	1 - 409	15 - 423	AI674585, and AW137161.
HNGJA15	4535	787570	1 - 959	15 - 973	AI.110505.
HNGJA18	4536	666512	1 - 292	15 - 306	
HNGJB34	4537	936011	1 - 424	15 - 438	TI3552, AA586366, AA585098, AA585325, T18597, AA170832, R29657, R45895, AA585101, D53161, Z32822, C15406, Z32887, D57491, D59751, R28735, R29445, C15069, D61185, A1557718, AA585155, A1557740, A1525316, AA585378, A1557262, A1526184, R28892, A1557864, A1541356, R28965, AA585439, Z28355, A1526140, A1541365, A1525500, D60765, D54897, AA585329, D60844, D59436, R29218, C16294, A1526078, A1541517, A1557731, R28967, R28895, A1557727, A1541205, A1541535, A1546971, A1525556, C16315, Z33559, AA283326, A1541383, AA585476, A1546999, A1547250, A1557763, A1546875, D55233, A1540903, A1526016, A1547039, D61254, D53447, A1557734, A1557084, C16292, C15120, C15762, D54850, D52835, D53472, D51433, A1557787, A1541346, C16300, A1541013, A1535639, C16293, A1557807, A1525306, C16305, C15737, A1557809, A1541374, AA585356, D60730, A1557758, A1546945, A1525431, A1526191, A1557155, A1541034, A1547196, D59458, C16296, A1526194, A1557408, A1547202, A1541523, A1557533, R29179, Z30131, A1525339, D57186, A1526112, A1557602, A1546831, A1546921, A1541307, A1526109, A1546996, A1540967, A1546891, A1547006, A1526024, A1526117, D78224, A1525856, A1557279, AA585430, A1540974, A1535660, A1541321, A1541515, AA585453, A1525320, A1557808, Z36724, C14208, A1526176, A1541402, R29262, A1557852, R29172, A1541492, A1526113, A1526195, R29177, C16290, A1541527, A1546829, A1526158, A1526146, A1556967, T19407, A1546901, A1541516, A1557317, A1536138, A1525168, A1541422, A1557039, A1526073, AA585389, A1526205, A1547137, A1541510, A1525656, A1557786, T41289, AA514191, A1557264, A1525332, A1557799, A1526180, A1557810, A1526187, A1546954, A1525286, A1525114, A1524904, A1557041, AA585117, A1547189, A1541423, A1541027, A1524891, A1525076, T41329, AA585434, C14210, D61060, C14322, A1541506, A1541415, AJ239433, AP000543, AR038855, AR062871, A25909, Y09813, X82786, A85395, A70872, A70869, A85476, X76012, AR037157, X81969, U87250, Z32836, AJ244005, Y16359, AR054723, AF082186, AR038762, AR031358, D50010, X55486, AR031365, D13509, AJ244004, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR017907, AJ244003, AJ244006, AR017826, AJ243486, AC005913, AR003381, A98420, A98423, A98432, A98436, A98417, A98427, AR008429, Z30183, A62298, AF213384, AR050070,

HNGJB52	4538	724406	1 - 432	15 - 446	A82595, A82593, AF006072, A98767, A93963, A93964, I63120, AF135243, AB005666, X82834, AJ131952, and L36913.
HNGJB68	4539	753060	1 - 371	15 - 385	AC005950, and AC001228.
					AA618452, AI284640, AW270382, AL121235, AI537506, AI539563, AI357551, AI364809, AI431303, AI754955, AA720702, AW021583, AA658362, AA747777, AI453397, AA533303, AA548511, AA503475, AI679045, AL040921, AA593247, AA713891, AI434695, AI358431, AL046457, AI038123, AL044858, AA584145, AL038474, AI821271, AA101689, N27584, AI355224, AA523838, AA535406, F17891, AI745325, AA724333, AA804962, AI674873, AA534204, AW265699, AA683258, AA534010, AI270248, AI246119, AI053790, AI805607, AI684097, AA856954, AA053635, AL022328, AC004139, AP000459, AC007308, AL031283, AC006153, Z93241, Z98036, D87675, AC004019, AL031848, AC004673, AP000745, AC004808, AC005242, AC006480, AC007057, AL049872, AC000052, AP000556, AI031670, AP000349, AL049760, AF134726, AC007242, AC004386, AC002470, AC007514, AC004499, AI031668, AP000088, AL008718, AC005815, AC006948, AP000122, AP000054, AC006991, AP000553, AL031346, AL009179, AC005231, AC010205, AC005902, Z83845, AC007040, AL022329, AC009405, AL049758, AL049539, AC005787, AC007262, AL034451, AL050318, AC005940, AL022721, AL049766, AC005004, AL049829, AC003684, AP001137, AL031295, AL022238, AL049699, AL049692, AP001053, AC011456, AC005089, Z83840, AC005632, AL133245, AC007748, AC005324, AC002316, AC005768, AL078472, AC005923, AC002301, AL024498, AL118516, AC005409, AP000031, AC004492, AC005005, U62317, AL118497, U52112, AC005250, AE000658, AL049643, AC006006, AC000353, AC006042, Z75746, AC002365, AC006132, AC005512, AF107885, U85195, AL096701, AC005844, AP000403, AC007226, AC002310, AL121877, AL080317, AC003668, AL022323, AB009667, Z97056, U07000, AF042090, AC005071, AL035249, AP001054, AC005332, AC005043, Z86090, AC005900, AB001523, AP000326, AC004638, AC005154, AP000023, AC004531, AC009516, AC004600, AC005924, AC006322, AC004963, AC003986, AL118509, AC009227, AC000067, AC004876, AL008582, AP000169, AC005509, AL050341, AF038458, AC004230, AC006071, AL049780, AC007666, Z82215, AC002404, M87919, AC005527, AC012627, AC007298, AC006515, AP000966, AC009044, AC005225, AL078623, D84394, AL035587, AL023284, AC005180, AC004675, AP000356, AC002418, AL049873, AL031257, AC005781, AL034553, U95743, L77570, AL132994, and AC007878.
HNGJC60	4540	723380	1 - 404	15 - 418	
HNGJC66	4541	786924	1 - 339	15 - 353	
HNGJC76	4542	739500	1 - 162	15 - 176	AC005915.
HNGJD15	4543	660312	1 - 201	15 - 215	
HNGJD61	4544	774154	1 - 737	15 - 751	
HNGJD71	4545	760397	1 - 428	15 - 442	AB022522, AB022521, AJ012652, and AB012162.

HNGJD76	4546	670948	1 - 339	15 - 353	
HNGJE16	4547	661976	1 - 366	15 - 380	
HNGJE33	4548	795219	1 - 409	15 - 423	
HNGJE40	4549	960003	1 - 380	15 - 394	
HNGJE56	4550	669732	1 - 415	15 - 429	
HNGJF26	4551	666504	1 - 399	15 - 413	AL096853.
HNGJF65	4552	698487	1 - 575	15 - 589	AW293616, and AA661680.
HNGJF73	4553	683440	1 - 395	15 - 409	
HNGJF79	4554	775221	1 - 142	15 - 156	
HNGJG15	4555	660308	1 - 421	15 - 435	AL021528.
HNGJG37	4556	708703	1 - 376	15 - 390	
HNGJG72	4557	970797	1 - 387	15 - 401	
HNGJG89	4558	778294	1 - 240	15 - 254	
HNGJH09	4559	415566	1 - 292	15 - 306	
HNGJH11	4560	860350	1 - 435	15 - 449	
HNGJH35	4561	952237	1 - 337	15 - 351	AL045943, AL134524, AL042377, L26292, AF190465, AC007425, AC005520, AC002540, AL035420, U89387, AC006241, AC005911, AC005519, AL049557, AL031681, and AC005940.
HNGJH50	4562	666843	1 - 435	15 - 449	
HNGJH96	4563	953648	1 - 246	15 - 260	
HNGJI29	4564	690667	1 - 373	15 - 387	AC005058.
HNGJI35	4565	707328	1 - 375	15 - 389	
HNGJI42	4566	465160	1 - 405	15 - 419	
HNGJI54	4567	465159	1 - 369	15 - 383	
HNGJI71	4568	760393	1 - 412	15 - 426	AI124706, AA307598, T74524, AI609972, AI755214, AI754567, AA658918, AI754105, AW328331, AA527209, AA654038, AA535216, AA643770, AI380617, AW304699, AI612142, AA714110, AI251576, AW274191, AI306232, AA704393, AI912401, AI583466, AI583252, AI733647, AI187148, AA533545, H07953, AA225890, AA747757, AA084609, AA297666, AA515138, AA829036, AW275432, H53284, AI049630, W60522, AW275412, AL118925, R92629, AI446336, AW300749, AA720774, AA904211, AI733662, AI244157, AA877992, AW083678, AA513551, AP000496, AF085946, AL050341, AL031985, AC006071, AC003685, Z93017, AC005184, AI132987, AC006277, AC006312, AC005412, U67813, Z97054, AC005484, AC005800, AC002544, Z98750, AC006237, AC004167, L13176, AC006254, AP001053, AC002115, I34294, AL021707, Z93930, U91326, Z98884, AL080243, AL035587, AC003957, AC004972, AL021546, AL023553, AC007276, AL049872, AC004805, AL031281, AC005049, AF038458, U80017, AL133243, Z99943, AC006441, AL121658, AC004638, AL022336, AF111169, Z99495, AC004084, AL139054, Z94056, AC004534, AL008583, AP000501, Z93016,

HNGJ177	4569	772215	1 - 344	15 - 358	AC002549, AC005519, AC007014, AL135744, AC007263, AC000041, AL049830, AF134726, AL031447, AC006211, AL109984, AC004382, AC002312, AL022237, AC005619, AC005903, X76498, AC004983, AC004966, AL031666, AC002425, U95742, AF196969, AC005736, AP000066, AL031295, AC006285, AC005067, AC005796, U82828, AC005355, Z93023, AC005562, AP000466, AL021397, AL031575, AC004797, AC006552, AF064861, AC007279, AC009516, AC007216, AL023494, AC004030, AC005041, AC005197, D86995, AL031005, AC004913, Y14768, AL096701, AP000694, AC001231, AL035659, AL096703, AC005933, AC004230, AC006946, AL033384, AC005620, M94579, AC005330, AF205588, AC004984, AC004929, AL031670, AC005952, M84371, AC006251, AL021026, AF109907, Z86090, AL022316, AL035072, AC005932, X15723, AJ236701, AC006965, AC004849, Z85987, AP000509, D84394, AC005082, AP000692, AC005815, AC005971, AC016830, AC005081, Z94801, AP000505, AC005215, AC005071, AC022517, AC005625, AL034548, AC0010105, AC005520, AC009247, Z95114, AC004477, Z97876, AC002563, AC000353, AC005536, AC005666, AL008582, U47924, AC006480, AC006544, AF045555, AP000558, AC006316, AF017104, AC004851, M30688, AC005231, AC005899, AC007226, AL121653, AC007688, AC005291, AC005156, AL109755, AC005048, AL022320, AC005907, AL080242, AC002395, AC007292, AC005031, AL133289, AC006450, AP000104, AC005327, AC000039, Y11484, AC002488, AC000379, AC007792, AL022165, AL031591, AC005913, AF029308, AC008044, AL023807, AC003010, AL049766, AC005670, AL049779, AL035249, U95740, AC007766, AL022238, AL133246, AC005694, AC004985, AF051976, AC002306, AC005874, AF134471, AL121603, Z96074, AC002091, AL109623, AC007746, AC005004, AC006512, AC002059, AL033527, AC005829, AL021940, AC007192, AL034420, AC004491, AC002326, AC005189, AC005102, AC009330, AC005785, and AC007073.
HNGJ183	4570	781213	1 - 400	15 - 414	W26162, and AL022721.
HNGJ122	4571	597096	1 - 447	15 - 461	T64224.
HNGJ151	4572	725702	1 - 110	15 - 124	
HNGJK04	4573	615288	1 - 393	15 - 407	AC002365.
HNGJK06	4574	935548	1 - 267	15 - 281	
HNGJK12	4575	970686	1 - 213	15 - 227	AC004856.
HNGJK23	4576	707327	1 - 113	15 - 127	
HNGJK29	4577	663954	1 - 162	15 - 176	
HNGJK42	4578	713810	1 - 387	15 - 401	AW274296.
HNGJK50	4579	860196	1 - 384	15 - 398	
HNGJK54	4580	730713	1 - 225	15 - 239	
HNGJK58	4581	736080	1 - 387	15 - 401	AA491767, AA714011, AA644090, AA302690, AI243789, AI567676, AW236288, AI270476,

				AA365586, AA021429, AI742168, AA481887, AA130647, AW188869, AA368616, AI791408, AI791720, AI254779, AA570441, AA833896, AA481970, AI829331, T50694, AA833875, H47461, AI002810, AA457408, AI224387, AW238341, AW020612, AA587516, AA557790, AA128511, AI084348, AI679871, AA600368, AW302017, AA595661, R79396, N27751, AA130855, H80989, AA721645, AA525753, AI044966, AA565426, U66083, AC005821, AC002477, AI133448, AC004913, AC005409, AC004975, U89337, AC005399, AI031589, AC004659, L44140, AR036572, U91328, AL031681, AF045448, AC004983, AF023268, AC004878, AL049694, AC007785, AC006480, AL034423, AL080243, AC007151, AC005726, Z94160, AC006101, AF069489, AC005902, I34294, AL109963, AF064860, AC007226, AC003109, AC006111, AL035086, AC005971, AC004967, AC005049, AL008725, AL049780, AC006596, M87889, AC005519, AL133399, AC006511, AC002302, AC000085, AP001053, AP006704, AC005089, AC002126, AP000008, AC005291, Z95331, AI049576, AC005972, AC006071, AB020868, AC004851, AL022316, AC003108, AB004907, AC000024, Z93241, AC005529, AC003982, AL132712, AP000247, AC005028, AC006166, AC000073, AP000512, AC006241, AC000353, AL021878, AC006080, AL022476, AC004554, AP000330, AC005666, AL035671, AC005602, AC004150, AL117352, AC004686, AP000689, AC006077, AL031680, AC004985, AC005330, AC002558, AL034553, AC005566, AL035458, AL021407, AI022069, AC004007, AC003962, AC005952, U95740, AL022721, AB023051, AL022165, AC006040, AC005527, AC000159, AC004098, AC006013, AC002511, AL035681, Z83840, AC004647, Z85987, AL135783, AC006026, AC005069, AC004750, AC005513, AC002312, AL049636, Z68870, AL035455, AF165142, AC007242, AC005907, AC005796, AC004836, AC005568, AL035398, AL109623, AF111167, AL021397, AC005697, AL035420, AL135960, AJ131016, AF031078, AL022327, AD000091, AP000047, AL035683, AL031311, AC005014, AC004854, AP001054, AF064861, AF030876, AL022320, AC004477, AB003151, Z98949, AC005764, AF165926, AP000143, AC006449, AC005736, AC006538, AL031587, AP000090, AC002350, AC004019, Z98752, AL031295, AL009181, AL034549, AC005067, AL096678, AC008115, AF124523, AP000115, AL008719, AC005670, AC000003, AC005899, AB023049, AL033538, AC007016, AC004525, AL133445, AC002303, AC004559, AC007848, AC006509, AC006530, AL110502, AF053356, AP000240, AL022313, AL117344, AF207550, Z86090, U95742, AP000346, AC005412, AC002984, AF195658, AL021707, AC005057, AC006012, AC005225, AF111169, X55448, AC004644, AC005306, Z98036, AC007011, AL133244, D87675, AC005564, AC005874, AF134471, AC005288, U91321, AJ003147, AF196969, AL031846, AC002314, AC007227, U91323, Z82244, AC004682, AP000248, AC005058, AL031584, AL021528, AL021391, AC006236, AC005229, AC007216, AL031662, AC003030, AL035414, AC016027, AC004883, AL034429, and AL049776.
HNGJK71	4582	739323	1 - 366	15 - 380
HNGJK77	4583	732737	1 - 530	15 - 544
				AL035106.
				AC006084, AC004820, and AF118125.

HNGJK89	4584	772218	1 - 336	15 - 350	Z98747.
HNGJL16	4585	661977	1 - 363	15 - 377	AI08137, AA644021, AA552280, AA320136, AP000502, AC006026, and AF134726.
HNGJL26	4586	681819	1 - 355	15 - 369	
HNGJL27	4587	725295	1 - 563	15 - 577	AA132777, AA809070, AI799864, AW076105, W22288, AI586953, AW192068, AA470553, AI288805, AA470607, and AA470506.
HNGJL60	4588	462981	1 - 427	15 - 441	AC007436.
HNGJL73	4589	783518	1 - 333	15 - 347	T59857, AI057232, AA077670, AI056766, AA076992, AI683105, AA633727, AW439721, AA076966, AA077800, AI057266, AA491063, AA854897, AA703747, AA491139, AI125775, AA279111, AI580834, AA490952, AA430496, AA450019, AI038182, AA156779, H29782, AC004916, AC004987, AF109718, AL133216, and AC006328.
HNGJM20	4591	964800	1 - 439	15 - 453	AC004672.
HNGJM35	4592	707324	1 - 122	15 - 136	AA679195, and AB002375.
HNGJM82	4593	967328	1 - 848	15 - 862	AA776881, AI961747, T70076, AI631548, AI198396, AI560937, C04802, AA650160, AI003674, AP000523, AC006453, AL049911, AC002038, AC002307, AP000544, and AP000543.
HNGJO10	4594	964678	1 - 395	15 - 409	
HNGJO35	4595	707329	1 - 390	15 - 404	
HNGJO45	4596	717069	1 - 394	15 - 408	
HNGJO73	4597	668997	1 - 348	15 - 362	AW151247, AA360082, AA610353, AA666295, F17549, R17793, AA862218, H11470, AW082006, AA910680, AW387775, AW387778, AA490951, AA588001, AA370455, T47970, AI791659, AA610588, AW387786, AL041749, AI133355, AA177130, AA062982, AA345064, R23873, AI031120, AC004787, AL008582, AP000331, AP000172, AP000057, AP000125, AB023050, Z97832, Z95329, U91326, AC002544, AI096763, AC007406, AL035458, AP000030, AC004228, AC004929, AP000251, AP000133, AP000211, AF020802, AI229041, AL133448, Z83844, AC005544, AB003151, D89870, AC004152, AP000689, AB020868, AC020663, U52112, AP000512, AP000687, AC006211, AF139813, AL117337, AC004854, Z75887, AC005829, AF003529, AC009247, AL049869, L78810, AC004596, AF111169, AL035659, AC007536, AL050348, AC004797, AC006064, Z94865, AP000151, AC010436, U95742, AP000009, AC007216, AC006121, AC004967, Z98884, AC007225, AC004973, AC005823, AP000302, AP000114, AP000046, AC007276, AL031846, Z93241, AC007676, AL031670, AC009069, AL035684, AC004777, AC006468, AL031311, AL080243, Y07848, AC006130, AC000026, AC002059, AL139054, AC005695, AF205588, AC008372, AF196779, U63721, D87675, AC005071, AC005291, AC005874, AF134471, AL034561, AC006456, AL050307, AC002115, AC002302, Z86090, AR004690, AC005377, AC005899, J05096, U80459, AL049737, AP000694, AL031291, Z94055, AC004099, AC003682, AC005011, AL133445, AL109801, AL022323, AC003025, AP000702, AP000703, AC004160, AC005231, AC006312, AP001046, AP000692,

HNGJP03	4598	860363	1 - 419	15 - 433	AL133163, AF118808, AC005696, AC002347, AP001054, AC007160, AC005245, AC007024, AL022313, AP000511, AL031255, AC007436, AC005070, AL021393, U91321, M19364, AL133353, AL121652, AC004703, AL020997, AC006600, AP000553, AL031984, AC003982, and AC003102.
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HNGJP10	4599	964668	1 - 662	15 - 676	AC006571.
HNGJP80	4600	766278	1 - 432	15 - 446	
HNGJQ14	4601	881542	1 - 356	15 - 370	
HNGJQ23	4602	789764	1 - 476	15 - 490	
HNGJQ25	4603	924652	1 - 488	15 - 502	
HNGJQ35	4604	707326	1 - 376	15 - 390	
HNGJIR01	4605	916555	1 - 542	15 - 556	AA342681, AA581914, AA775049, T48872, R26134, A1754955, AA441788, AA551798, A1360514, AA077776, A1446474, AA649642, R92640, AA662974, AA663306, A1445815, A1049996, AW268190, AW265654, A1978792, AL037910, AA483655, AA649553, AA558298, AW021917, A1597832, A1284108, AA780929, AA128592, AA577732, A1345695, A1114752, A1862716, A1865213, AA809189, AA437402, A1284640, AA482896, AA121919, F29989, AA487542, AA167741, T94094, H58472, AA720732, AW188976, R83838, F23255, AA161181, H64777, AW339622, A1014378, AL036854, AW088058, AA747472, T40612, R32200, AA614010, C14692, F17700, AL120245, AA296859, A1865988, AA527730, AW268277, A1885572, H84359, A1241705, AW337454, AW271904, AW189068, AW440633, A1524540, AA501614, W01999, AA516047, T40617, T52478, AA584489, A1079129, AA679872, A1453213, AA595625, AA747375, AA904275, AA515350, AA557879, T47739, A1160117, AA593471, R82388, T06828,

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HNGJS24	4606	677235	1 - 319	15 - 333		
HNGJS45	4607	720746	1 - 121	15 - 135		AL022147.
HNGJS53	4608	728258	1 - 432	15 - 446		
HNGJS64	4609	746606	1 - 409	15 - 423		
HNGJS91	4610	920755	1 - 415	15 - 429		
HNGJT36	4611	888329	1 - 432	15 - 446		AC002483.
HNGJT72	4612	775502	1 - 371	15 - 385		
HNGJT93	4613	792338	1 - 332	15 - 346		
HNGJT95	4614	953418	1 - 345	15 - 359		
HNGJU36	4615	708122	1 - 638	15 - 652		AL133216, and AC004883.
HNGJU50	4616	724416	1 - 399	15 - 413		
HNGJU51	4617	725703	1 - 287	15 - 301		
HNGJU78	4618	860347	1 - 420	15 - 434		AI345721, AI640679, AA547976, AI187148, AI281622, H90688, AI369076, AI653776, AW407007, AA230155, AA515742, AW157173, AA523719, AW302078, AA584756, AA984920, T52745, AA362440, AA492264, AL134216, AA515451, AL043745, AA632593, AW328331, AA584527, AW328330, AA354507, AI096738, AA572813, T12424, N69313, H94979, AA630947, AW242279, AI380617, R98835, R94909, AI570019, AI12864, AW162314, AA835346, N87333, AI884404, AW162332, AA564925, AI196287, Z98884, AC009363, AC007056, AC005225, AC004035, AC005362, AL023553, AC006241, AL035411, AC005412, AF044083, Z97054, AC005667, Z97632, AC005695, AC005237, AC007450, AC004485, AC004106, AC004098, AC005841, AP000116, AP000049, AP000311, X96421, U89335, AC003666, AC000052, AF102137, AL035462, U95739, AC004922, AC004685, AC004638, AC003070, Z85986, AP000350, AC005325, AC006581, AL078621, Z92542, AF111168, AL008719, AC004757, AB020868, AC005962, U91318, AC006274, AP000255, AP000213, AP000135, Z86090, AP000031, AL078638, AL133445, AC000393, AC005553, AP000210, AP000132, Z84469, AC004859, AP000248, AC005971, AF143866, AB007914, AP000300, AC004834, AC002036, AP000045, AC005091, AC005215, AC003684, AL049569, AC002429, AC004262, Z83819, AL035458, AL135745, AC007114, AL035460, AC005666, AC009044, AC007540, AC006450, AC006040, AC006088, AL031432, AL022394, Z94056, AC003030, AC007536, AC005846, AC006576, AC004941, AL022313, Z95331, AC001231, AC005993, AC020663, AL035405, AC006487, AF064105, AF165926, AL118503, AL117330, AC005328, AL023801, AC005793, U62631, Z68756, AC004643, AC005783, AL022302, AC004802, Z98749, Z98051, AC003002,

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HNGIV04	4619	615283	1 - 210	15 - 224	
HNGIV10	4620	964672	1 - 402	15 - 416	
HNGIV91	4621	790213	1 - 235	15 - 249	
HNGKA62	4622	876593	1 - 508	15 - 522	
HNGKB11	4623	966119	1 - 516	15 - 530	
HNGKB25	4624	944424	1 - 706	15 - 720	AA121830, AW402301, H38504, AA227281, and AL050037. H53110, AW419161, AA551509, AA878495, AA345333, T07346, T51743, AA525407, I181732, AA658235, AA441788, AA773289, AA134367, AA428414, AA583579, AA602557, AL358343, AA335519, AL366902, AA679493, AW062724, AA583568, AA723017, AL952786, AL707788, F35113, AA301813, R44592, A1446464, H68343, AL753037, AL042213, AA508509, AA171941, AL037897, AW327868, AA932099, T48872, A1439360, AL246796, AA525331, AA557686, AA658018, AL045455, AL335963, AA653964, F00949, AL016704, AL109798, AP000692, AL021579, U02050, AL121603, AC005288, L78833, AC002425, AC004741, AL035684, AC005088, U27336, U27334, AP000555, AC008498, Z98941, AF131211, AC004682, AC007536, AL049569, AC004736, AC006463, AF030453, AB016897, AL050312, AC001228, AC004856, AF196971, AP000315, AP000885, AC005102, AL133448, AP000359, AL121653, AL034379, AC005786, AL133245, AC004158, AP000501, AP000115, Z97056, AP000045, AL035086, AC002301, AL135879, AL121790, AP000089, AP000165, AC006449, AL022316, AC005215, AL135960, AJ131016, AP000193, AC004792, AC004985, D16583, AL031846, AL109984, AC004030, AC008040, Z99755, AL022238, AF024533, AC004531, AC008163, AC006432, AP000050, AL031733, Z82185, AC006455, Z85986, AP000117, AP000310, AF050154, AC005972, Z68287, AC020663, AL031905, D87675, AC004383, AC005695, AF190465, AP000118, AF124730, AL009031, AL049832, AC005911, AC002326, AC004129, AL035659, AC007686, AC006561, AL008629, AC005306, AC007199, U75931, AC016026, AL031053, U95742, AC004814, AC002310, AL022574, AL117258, AC004168, AC005375, AL121578, AC002091, AC006160, U66059, AC004678, AL008718, AP000553, AL133163, AC005225, AL079340, AC003695, AC002527, AL022721, AC005837, AC007021, AL035681, AC007157,

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HNGKB78	4625	971110	1 - 760	15 - 774		
HNGKB93	4626	791760	1 - 291	15 - 305		
HNGKD55	4627	860343	1 - 588	15 - 602		
HNGKD94	4628	793414	1 - 553	15 - 567		<p>AW270385, AI355246, F35684, AA714011, AI355103, F23338, AA484892, AA282951, AI190648, AA831408, AA503142, AI185394, AA664126, T47138, AI310992, AI300818, AA158549, AI370170, AA857812, AW272815, F34506, AA769141, AA846923, AA558404, AI761677, AW104163, H79586, AW069227, R67701, AI310464, M85711, AI625604, AA568314, AI041375, AW419389, AI362442, AI537995, AI536858, AI130709, AA534208, AI869786, T03412, H29914, AI572680, AW151018, AA654482, AA354695, AA669961, AW237905, AA018231, AW188742, AW272640, AA182731, AA809186, AW023111, AA568204, AA570740, AA582746, AA483606, AA523695, AI634187, AA314891, AA347382, AW008169, R83068, H67064, AA573000, H13120, Z30294, AI431513, AI457313, AA668587, R93919, R79255, AI278972, AW002831, AA491767, AA458534, AI288033, T94394, AI189682, T50676, AI285493, AA878407, AA856841, T05617, AA600202, AW302017, AA553594, AI620992, AW162750, AW192402, AC004883, AC005971, AP000117, AC005280, Z95152, Z98304, Z94056, AC004973, AC006344, Z86090, AC004033, AI109627, AC005551, AC000381, Z81357, AI035588, AI096773, AC005722, D88268, AF134726, I34294, AC004893, AC005237, AF207550, AC004878, U73330, U82828, AC006388, AI035659, AC005821, AF051976, AC007546, AI022326, AC003070, AC005089, AC004150, AI049759, AP000696, AC007193, AC011311, AF002223, AI021393, AI096701, AC004963, AC007283, AI021808, AC005378, AI035562, Z92546, Z98750, AC005216, AC004983, AI031255, AE000662, AB015355, Z93241, AC007567, AB016897, AC002400, AP000049, AP000116, AC004522, AC002425, AI049776, AP000500, U62293, AF047825, AP000311, Z85996, M94081, AC002551, AC008126, AC005057, AC006536, AF217403, AP000337, AP000216, AC004881, AC004771, AI031597, AI080245, AC005183, AI049748, AC006125, AI035695, AP000503, AI049834, AF129756, AC006057, AC004417, Z83820, AF001549, AC005317, AP001063, AI078611, AC004253, AI035405, AC006071, AF001550, AC007308, AC006441, AC006116, AC005206, AC005391, AC002470, AB012723, AC004943, AI031228, AI080243, AC004955, U63721, AI117340, AI031670, AP000555, AC005667, AC007030, AP000010, AI031659, Z98200, AI121852, AI117355, AI031005, AI121769, AC004974, AP000359, AP000353, AD000684, AC002128, AC005071, Z98752, AI035420, AI034417, U52112, AF075098, AC006360, AC000393, AF037338, AC006960, AF097738, AP000103, AI022327, AC005779, Z97630, AI050321, AI033517, AI121652, AC005793, AC004929, AC006480, AC005225, AP000502, AC002351, AI024509, AI031295, AC004831, AC006241, AI022311, AI117337, Z94801, AP000565, AC006061, AC005686,</p>

HNGKE05	4629	860320	1 - 529	15 - 543	<p>AC006285, AC004400, AL031257, AL008710, AC006121, AL031283, AL008726, AC005086, Z97054, U73643, AP000345, AC005777, U85195, AL109827, AC004778, AC004686, AL035684, AL117694, AC006019, AC004381, AC004020, AC005808, AC003071, AC007182, AC022517, AL022302, AC004675, AL031681, AF205588, AL008725, U51561, AL022320, AC002563, AC007785, AC005412, Z83847, AC020663, AL133312, AC004663, AL031685, U02068, U73637, AC003035, AL049832, AL096712, Z97053, AC009363, AL034402, AE000658, AL022316, AC007371, AC007216, AC007199, AC003030, AC008788, AC006133, Z98036, AL022158, AL031680, AC007021, AC004000, AC008071, AL022313, Z93244, AC005049, U63630, AL117352, X99832, AF088219, AP000114, AF015416, AC000946, AC005261, AL021807, AJ246003, AC000385, Z49236, AL133382, AC005516, AL049591, and AC002295.</p> <p>AL138265, AI801482, AI963720, AI370074, AI284640, H71429, AW193265, AA610491, AW088718, AL119691, AI249997, AI708009, AW327868, AI431303, AA483223, AL046409, AI312309, AL041690, AA101689, AW021583, AA469451, AI355206, AA569471, AI334443, AW303196, AA652057, AI345654, AL044858, AI307608, N75702, AW249224, AW301350, AW274349, AA720702, AL042420, AI270117, AI305766, AA665330, AL138455, AA192747, AW304584, AA877817, AA901183, AW439558, AW265170, F36273, AL046205, AL079645, AA587256, AI305547, AA649642, AI890928, AW265393, AI368256, AI254615, AI890570, AI133164, AW020340, AI956131, AI888518, AL047427, AW103758, AI110770, AA525416, AI754658, AW088846, AA847499, AA493471, AA551503, AI350211, R24205, AI037683, AL048925, AI613280, AW276827, AI246119, AW408717, AI178953, AI092740, AA747105, AL044940, AI357288, AI568678, AW023672, AA679124, AW276817, AI061334, AA640900, AI962050, AA394271, AI919265, AA526787, AI814735, AW073470, AI133102, AW410400, AA491814, AL042753, AA468131, AA521323, AA581903, AA468022, AA587604, AI434695, AI281881, AI570261, AI064864, AI457397, AW004911, AI345681, AI345675, AI345518, AA834792, AA503475, AI313166, AI561060, AI679782, AA214342, AW438643, AA623002, AI890348, AI368745, AI732764, AW029038, AI149478, AA631507, AI589230, AI289067, AA653618, AW340844, AW265385, AA521399, AI341664, AW276435, AI345157, AA470969, AL038705, AW193432, AA810318, AI224093, AL045053, AA758934, AA486559, AI473943, AI801600, AI610159, AA559290, AI254316, AI344844, AA584581, AI669453, AI688846, AA669840, AI801591, AW261871, AA908687, AI619997, AW238278, AA610271, AI375710, AL039958, AW419262, AL037554, AI471481, AW070892, AI865905, AA601492, AA846935, AA503154, AL120269, AI085719, AW162049, W31373, AI928790, AI929531, AA225230, AW248803, AI053672, AA309841, AI307201, AI076616, AA661948, AW270270, AA601371, AL040130, AW269488, AA164251, AA601355, AA482806, AA828712, R71981, AA583955, AA904275, AW148792, N48230, AL120502, AA806796, AL119984, AI471572, AA205915, AL046457, AL042856, AW072587, AW072923, AI744995, AA665021, AI859742, AL138421, AI679132, AW088616, AA542991, AI580652, AW008317, AI053790, AA680243,</p>
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HNGKE52	4631	812714	1 - 575	15 - 589	AP000522.
HNGKE73	4632	860312	1 - 664	15 - 678	

HNGKE89	4633	786257	1 - 522	15 - 536	AI139228.
HNGKE91	4634	789685	1 - 535	15 - 549	AC004263.
HNGKE93	4635	791623	1 - 462	15 - 476	
HNGKF01	4636	915247	1 - 359	15 - 373	D80038, C14389, D51799, D59467, D80227, D80195, D80164, D59275, D59502, AA305578, D80269, D58283, D51423, D59610, C14331, D59859, D80022, D80166, C15076, D59619, D80210, D80391, D80240, D80253, D80043, D59787, D81030, D80193, D80378, D80212, D59979, D80196, D80188, D80219, D59927, D57483, D80241, D80366, D50995, AA305409, D59889, D51022, D80024, D80045, AW177440, C14429, AW178893, AA514188, D51060, D81026, T03269, D80248, AW179328, C14014, C75259, AW378532, D80522, D80251, AW360811, D80133, D80134, AA514186, AW178762, AW177501, AW177511, D58253, D51250, AW369651, AW178775, AW375405, C05695, D80132, AW352158, D80268, AW377671, F13647, D59695, D52291, D80302, AW352117, AW366296, AW176467, AW360844, AW360817, AW375406, AW378534, AW179332, A1910186, AW377672, AW179023, AW178905, C06015, D80168, D80439, D80247, C14227, AW352170, AW352171, AW377676, AW177731, AW178907, AW178906, D81111, AW179019, AW179024, C14298, D59373, D80064, AW177505, AW360841, AW179020, A1905856, C14407, AW178909, AW177456, AW179329, AW178980, D51103, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, T11417, AW367967, AW179004, D80157, AW179012, AW178914, Z21582, AW378525, AW378540, D51759, AW177722, AW177728, D51097, AW179009, AW178774, AW178911, AW378543, D58246, AW352163, AW360834, D59503, C14077, AW178983, AA285331, T48593, AW178781, AW352120, D58101, D59627, D80258, D59653, A1557751, D45260, AW177723, AW178986, A1535850, AW378533, C14975, AW367950, AA809122, AW177508, D80014, H67854, C03092, D45273, H67866, A1525923, D51213, AW177497, T03116, D59317, D60214, D80228, A1525917, C14344, C14973, AW177734, A1525920, A1535686, D51221, T03048, D59474, D59551, D60010, AA514184, A1525227, A1557774, C14957, C14046, A1525242, A1525235, A1525925, A1525912, A1525215, A1525237, AW378542, AW378539, A1525928, C16955, Z33452, C05763, T02974, T02868, A1525222, AW360855, A1535961, D31458, A84916, A132110, A62300, A62298, AR018138, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, I82448, D88547, Y12724, A82595, X82626, AR060385, A94995, AB002449, AR025207, AR016808, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AB012117, AR066482, AR066490, X68127, Y09669, A43192, A43190, AR038669, I18367, AR066487, I14842, A30438, A85396, A44171, AR054175, U87250, A85477, I19525, A86792, D50010, Y17187, D88507, X93549, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, D13509, I79511, A64136, A68321, AR060133, AF135125, U79457, AF123263, AR032065, U87247, X93535, and AR008382.
HNGKF11	4637	965047	1 - 473	15 - 487	D80045, T18597, A1536138, A1535660, A1541365, A1535639, R29657, AA585439, AA585098,

AA585325, R45895, AW366296, A1557084, D59436, A1541205, R28735, R29445, A1557864,
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A1905856, AA170832, D80022, D80391, D59787, R29218, C14389, A1541535, D80196,
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D80210, D51799, D80164, D59275, D80240, D80366, D80227, A1526187, D59502, D81030,
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A1541383, D61254, AW179328, A1541517, D53472, AA514186, A1541034, D80133, D80247,
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A1547250, AW378532, D55233, A1525856, A1546999, A1524891, Z33559, A1526016, D80132,
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A1524890, A1525306, D30843, A1541374, AW377671, AW360844, AW360817, C16294,
A1536070, A1557533, A1557718, C15120, AW378534, A1541013, D80134, AW179332,
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AJ132110, A94995, A25909, AR008278, AF058696, AB028859, Y17187, AR031365, AR016514,
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AR066488, AR060138, A45456, A26615, AR052274, AR050070, AF135243, Z30183, D50010,
AF006072, D13509, Y09669, A43192, AR066487, AR054175, X82786, AB005666, A82593,
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AR008277, AR008281, AR008408, AR016691, AR016690, U046128, A85396, AR066482, A85477,
A86792, X76012, A64136, A68321, AR060133, D88507, AF213384, I79511, X93549, X82834,
AF123263, I36913, AR032065, I179457, and AR008382.

HNGKF83	4638	780453	1 - 608	15 - 622	AA766221, D51799, AA305409, D59859, D59610, D59619, D80210, D80240, C14389, D51423, D80166, D80253, C14331, D80439, D81030, D80219, D80195, D58283, D80212, D80366, D51060, D80188, D59467, D80248, D80022, D80227, D80391, D80164, D59275, D80043, D59787, D59502, D80241, D80038, D80269, D57483, C14014, D59889, D81026, D50995, D80196, D80133, D51022, D50979, D80024, D80268, D80522, D59927, D80247, AA514186, C15076, AA305578, D80193, D80045, AA514188, D80251, D80378, AW360811, C14429, AW177440, D80302, AW178893, D80157, C75259, AW377671, AW375405, D51103, T03269, D51759, AW178906, AW366296, AW179328, AW360844, AW378534, AW360817, AW375406, AW179332, AW377672, AW179023, AW178905, AW378528, AW178762, C05695, AW378532, D59373, AW176467, AW177501, AW177511, T48593, D80134, AW352171, AW377676, D59653, AW352170, AW177731, D80132, AW178907, AW179019, AW179024, D58253, C06015, D51250, AW178983, D45260, AW360841, AW177505, AW352120, AW367967, AW179020, AW178775, AW369651, AW178909, AW177456, AW179329, AW178980, AW178914, AW178774, AW177733, AW178908, AW178754, AW179018, AW352158, AW352117, H67854, AW360834, AI525920, D80949, D51079, AW179004, D80228, AW367950, AW179012, AW378543, AW378525, AW378540, AW352163, AW177728, C03092, H67866, AA809122, D59627, C14973, D80168, T11417, AW352174, C14298, AW179009, D58246, AW178781, AW178911, AI525923, AW177722, F13647, AI525917, AI910186, AW178986, D81111, D80064, C14407, AI905856, C14344, D51221, T03116, D58101, D80258, D59317, D80014, D59474, C14227, D59503, AW378533, AA514184, C14957, AW177508, D60010, D60214, D51213, AI535686, AI535850, AW177734, AW177497, D59551, AI525235, AW177723, AI525227, C14046, AI57774, AI525912, D45273, AI525215, AI525242, AA285331, AW378542, AI557751, AI525925, AI525222, Z21582, AW378539, C16955, Z33452, C05763, T02974, T03048, AI525216, AW360855, AI525239, D51097, AI525237, AI525928, AI525238, D51053, H67858, C04682, Z30160, T02868, N66429, AA305720, A62298, AR018138, AR008278, AF058696, A84916, A62300, AB028859, AI132110, A82595, AR060385, AB002449, D26022, X67155, A25909, Y17188, A94995, Y12724, I50126, I50132, I50128, I50133, A67220, D89785, A78862, D34614, AR008443, AR066488, AR016514, AR060138, A45456, A26615, AR052274, D88547, A43192, A43190, AR038669, Y09669, AR066487, X82626, A30438, I82448, I14842, AR054175, D50010, Y17187, A63261, AR025207, AR008277, AR008281, AR066490, AR008408, A70867, AR062872, I18367, AR016691, AR016690, U46128, A64136, A68321, D13509, AR060133, I79511, X68127, AB012117, AF123263, AR032065, U79457, AJ000347, and AR008382.
HNGKG43	4639	958487	1 - 782	15 - 796	
HNGKG61	4640	860317	1 - 408	15 - 422	
HNGKH04	4641	926987	1 - 421	15 - 435	AC002041, AC006352, AJ239321, AC002038, AC006359, and AC004057.
HNGKI30	4642	860205	1 - 314	15 - 328	T05706, A61271, AF134707, and A61272.
HNGKI36	4643	784854	1 - 598	15 - 612	AC005939, and AC007488.

HNGK190	4644	787378	1 - 224	15 - 238	
HNGK193	4645	791671	1 - 502	15 - 516	AC022517.
HNGKJ01	4646	915231	1 - 682	15 - 696	
HNGKJ38	4647	806053	1 - 619	15 - 633	
HNGKJ51	4648	883072	1 - 690	15 - 704	
HNGKK35	4649	806051	1 - 281	15 - 295	AC005940.
HNGKO11	4650	966093	1 - 301	15 - 315	
HNGKP29	4651	860305	1 - 285	15 - 299	
HNGKS06	4652	974356	1 - 387	15 - 401	
HNGKT08	4653	958311	1 - 496	15 - 510	
HNGKT69	4654	860302	1 - 675	15 - 689	
HNGKU04	4655	926948	1 - 301	15 - 315	
HNGKV01	4656	915218	1 - 266	15 - 280	
HNGLA54	4657	860206	1 - 146	15 - 160	
HNGLC01	4658	915288	1 - 565	15 - 579	AA773098, A1800343, A1743899, R84528, L35485, AF011889, and Z84466.
HNGLC46	4659	775300	1 - 341	15 - 355	AL096867, and AB020858.
HNGLD34	4660	830026	1 - 299	15 - 313	A1351206.
HNGLE25	4661	860260	1 - 725	15 - 739	
HNGLE52	4662	835972	1 - 727	15 - 741	AL049691.
HNGLE74	4663	860263	1 - 729	15 - 743	
HNGLF03	4664	922969	1 - 610	15 - 624	
HNGLF08	4665	958312	1 - 1309	15 - 1323	AA149651, A1417864, and AA151561.
HNGLG06	4666	839088	1 - 676	15 - 690	AA654505.
HNGLH72	4667	785570	1 - 704	15 - 718	
HNGLH82	4668	954140	1 - 726	15 - 740	
HNGLJ04	4669	954943	1 - 608	15 - 622	AL132799.
HNGLJ20	4670	806045	1 - 535	15 - 549	AA297666, A1859438, A1733856, AA526099, AL046519, AA503298, AA643770, AA721645, AW020992, AA832175, A1244157, A1755214, AA640430, A1754567, AW302659, AW302705, AL079734, AA640410, A1380617, A1754105, A1349817, A1984168, AA176978, A1654247, A1469599, AA468505, AW268757, A1679045, AA167792, A1251203, AW190484, AW300650, AA904211, AW151870, AA584620, AA053463, AA857486, AW268954, A1792529, AA652834, A1610737, AW001268, AW004884, AW304805, A1251284, A1345827, A1250552, AW085718, AA135761, A1371208, AA299589, A1565126, AA405726, AW270771, A1251034, AW274350, R62710, A1281561, AA856961, AW338179, AA548610, AA833896, A1537995, AA621381, A1284543, A1061197, AA916171, AA833875, AL135377, T03583, AW303098, AA955031, A1130709, AA492105, A1087133, A1289447, AA133013, AA630854, AA223174, A1356440.

HNGLK13	4671	785685	1 - 306	15 - 320	AW157005, AA487475, AL038842, AA659333, AL620992, H07953, AL254779, AL249688, AL247101, AA251356, AA757661, AA765170, AL978718, AL567712, T69896, AA564570, AA947374, AC005102, AC004386, AL121595, AC002418, Z98745, AF117829, AC006509, AC005015, AC005678, AC006013, AP000081, AC004458, AC002511, AF069291, AL035249, Z98742, AL021368, AC005939, AC005076, AC004682, U78027, AC006512, AL035422, AC012099, AP000959, AC004985, Z97053, AL034408, AC004087, AL034402, AL079304, AL096817, AC002302, AC006026, AC006312, AC004801, AL121871, Z82176, AL121657, AC005005, AC007437, AC002349, AC005552, AL132987, AP000401, AC004025, AF001549, AL035420, AC006480, AL033375, AC006327, AC005482, AC004003, AP000500, AC007344, AC004817, AC007270, AL031055, AC004383, AL122020, L78810, Z98744, AC007617, AC004448, AD000092, AC006536, AC004954, AL110502, AC008372, AC002464, Z84466, AC005028, AC006050, AC006116, AL022165, AC005900, Z93931, AC005527, AC002287, AC007537, AL031010, AC006952, AL031294, AL139054, AL008583, AC007051, AC004125, AC005751, Z96050, AC004056, Z94721, AC004000, AL133371, AL049742, AC004797, AP000088, AC004209, AC008064, AL034376, AL109952, AL031407, AC007686, AC004103, AP000356, AD000091, AC007919, AC007380, AL121652, Z95114, AC002288, AE000659, AC005529, AC007242, AC005697, AC003667, AC005378, Z84476, AC005375, AC007685, AP000345, AC000052, AL049198, AP000555, AP000514, AC006840, AC005940, AC004617, AC005235, AC004675, U85195, AC007227, AC004499, AE000658, AC004686, Z84572, AC004024, AL096701, AF088219, AC005570, AC005094, AC005476, AC005828, AC005332, AP000359, AP000228, AL133163, AC007666, AL133448, AC006581, AC007436, AC002432, AC002301, AC007688, Z97630, AF196779, AC008009, AC005971, AC005049, AL049776, AC006441, AC004815, AP000245, AC003091, AF141309, AL078583, U47924, AL096706, AL035427, AL031575, Z93244, AC007877, AL033397, Z95126, AC003070, AP000353, AC006141, AC002559, AC005031, AC005261, AC009946, AP001053, AL132712, AP000072, AP000269, AL031657, AC004859, Z93020, AC005297, AL008582, AF207550, AR036572, U91328, AL050318, AP000103, AC007363, AC000393, AC004827, AC008929, AC003991, AF064860, AC004832, AC005035, AC007637, AC005484, AL050306, AC004019, AP000032, AC004526, AC005946, U80017, AL121694, AC005386, AL031722, AC005696, AC002549, AC006960, AC000026, AL049757, AC004999, AL022237, AL133500, U07562, AC008063, AC008079, AC005089, AC005348, AC005736, AL031255, Z98304, AC005606, and AC004584.
HNGLK65	4672	795280	1 - 508	15 - 522	AL034431, and AL050317.
HNGLK90	4673	795225	1 - 658	15 - 672	
HNGLL03	4674	923028	1 - 408	15 - 422	
HNGLL11	4675	966105	1 - 397	15 - 411	
HNGLL24	4676	859922	1 - 635	15 - 649	TI8597, R29657, AA585098, AA585325, R45895, CI5406, D59751, CI5069, D53161, AA585101,

HNGLL31	4677	789193	1 - 402	15 - 416	D57491, R28735, R29445, A1557262, A1557864, Z32822, R28965, Z32887, A1525500, R28892, A1541356, A1541517, AA585155, D60765, AA585378, A1541365, D54897, A1526140, A1557740, D61185, Z28355, AA585439, D59436, AA170832, C15120, R28967, R29218, A1541205, D60844, A1526078, A1525556, A1557727, AA585476, A1557731, R28895, AA585329, A1541535, A1546971, A1526184, A1525316, A1557787, A1546999, AA283326, A1541383, D53447, C16294, C16315, A1546875, D52835, A1547250, A1557763, D61254, A1557734, A1526016, D53472, A1557084, C16293, C16292, A1541013, A1547039, D55233, A1541346, A1546945, A1525306, C16300, A1541374, A1557155, C15762, A1557758, A1557809, A1525431, A1557807, A1547196, AA585356, A1557718, A1541034, A1526191, C16305, A1541523, Z30131, A1546921, A1557408, A1557602, A1526194, C15737, A1540903, A1541307, A1525339, A1546996, A1540967, R29179, A1546891, A1547006, Z33559, A1557279, D57186, A1541321, A1540974, C16296, D60730, R29177, C14208, A1525320, A1557533, A1547202, AA585453, R29262, A1535639, C16290, A1557808, A1526113, A1541527, D51433, A1536138, A1526024, D54850, A1525856, A1526158, A1535660, A1526109, A1546829, R29172, A1557039, A1526112, D59458, A1526176, A1525302, A1556967, T19407, A1526187, AA585430, A1557264, A1541422, A1526073, A1526180, A1547137, A1541510, A1546831, T41289, A1526195, A1541353, A1525656, A1541345, AA174170, C14322, A1526117, A1239433, AA585117, A1541027, A1547189, A1525286, AA514191, A1541492, A1524891, Z36724, A1540920, A1525332, C14391, T41329, A1557041, A1557082, C14723, A1557238, A1524904, A1546828, A1557852, A1541506, A1541415, A1541515, AA585434, A1557799, A1546855, A1541048, A1557285, A1557317, A1557786, A1546901, A1524890, A1541402, A1525168, AA585440, A1526205, A1526146, A1525076, A1541514, A1541017, A1540882, A1546954, A1541390, A1557810, A1547140, AA585389, A1525114, A1547026, A1541423, A1557785, A1541508, A1541516, C14210, A1541075, A1540944, A1557796, D61060, A1541450, A1526169, A1525653, AA585420, A1547071, A1547158, A1557802, A1541410, AR062871, A25909, AR038855, Y09813, X82786, X81969, Z32836, U94592, AR054723, A1744005, Y16359, AF082186, D50010, D13509, A1744004, A20702, AR062872, AR062873, A20700, A43189, AR038762, D78345, AR017907, A1744003, X55486, X76012, AC005913, A98420, A98423, A98432, A98436, A98417, A98427, AR031358, AR031365, A98767, A93963, A93964, I63120, A1744006, A1743486, AR017826, AR003381, Z30183, A62298, AR050070, A82595, A82593, AF213384, AF006072, X82834, and L36913.
HNGLL41	4678	845274	1 - 774	15 - 788	A1583390, A1128511, AA502207, AA709362, M87890, S42652, AL022313, M87914, S42653, AC003101, AC004447, AL080243, AL031848, AL033527, AC005529, AC005288, AC004834, AC005776, Z99916, AC005632, AP000704, AC002352, Z85987, AC003010, AC007386, AF111167, AC004686, AC004983, AC005694, AC000379, AC006480, AC005899, AC005527, AP000501, AC011331, U95739, AC007227, AL022315, AC004953, AL080317, AC002312, AC004816, AC005837, AC007565, AC005736, AC005041, AC002565, AC005081, AF053356,

						AC004707, AC004531, Z84476, AC005773, AC000388, AC005747, AC006285, AC004662, AF001549, AL022316, AC005513, AC003110, AL109627, U63721, AC007276, AL109865, AL049553, AC002407, Z83844, AL023799, AC004653, AF111168, and AL049758.
HNGLL67	4679	860253	1 - 405	15 - 419		AA658934, AA496268, AI923052, AW069227, AW316599, AI634187, AI457313, AA452325, AW247389, W96277, AA020873, AA947369, R70883, AA614647, AA077637, AA579399, AA501460, AI270647, AI567391, AA652910, AA620510, AA314338, AI798569, AW405593, AA374797, AA558366, H40478, AA363957, AW408767, T92394, AI699049, AW265688, AA226357, AA357850, AA226356, AA558404, AI004740, N86089, AA747609, AA584484, AA613623, AA493947, AI583978, F16409, AI359200, N25079, U95737, AC004216, AC002351, AC022517, AC007878, Z95152, AC002300, Z93930, AC009399, U07562, AL049832, AC003982, Z92542, AL022165, AC005274, AL022578, Z84466, AC004832, AC005799, AC003664, AC005697, AL031311, AL110502, AL049856, AC004782, AC006965, AL109963, AC004020, AL050307, AC007425, AC004757, AC005962, AL021391, AC004554, L78810, AF207550, AC006449, AL022326, AL031575, AC007684, Z82203, U91321, AF088219, AL031659, AL133355, AC007773, AC005183, AC007011, AC007238, AL031733, AC005018, AL008730, AL049766, AC005728, AC002299, AC004476, AC003957, AC004033, AL135960, AJ131016, AC002381, AC005237, Z82217, AC006011, AL109759, AL133163, AL136504, AC005670, AL031737, AC005332, AL050321, AC007386, AL096818, AL033521, AC004820, AC005486, AL049760, AC002312, Z83822, AL023877, AC007546, Z97987, AL030996, AC006236, AC002477, AC007652, AL034423, AC004098, AC006050, AL008718, AL008719, AL049733, Z95116, AC006017, AC006071, AC005476, AC002553, AC002365, AC007216, AC006576, AL022315, AL049650, AL035405, AC005155, AC003983, Z83826, Z84487, AC004408, AC002091, AL022322, AC007314, AC005702, AL049536, AL022400, AL031277, AC004813, AL022721, AL109839, AF031076, AC006060, AC005844, AL049830, Y15994, AL022345, U95742, Z94044, AL035400, AC003687, AC008249, AC005342, AC005859, AL049779, AC006530, AL078638, Z93242, AL049759, AC011311, AF152365, AL031432, AC005668, AL049709, AC006039, AC003684, AF031078, AC007868, AL035634, AP000354, AF030876, AC007539, AL035695, AF129756, AC004973, AL022158, AL030995, AC005081, AC007387, AC005411, AC005250, AC005409, AC009784, AC002390, AC007880, AL049869, U47924, AL022396, AC004966, AC003682, AC006130, AC004601, AC005597, AC007999, AL031178, AL021808, AC005284, AC002073, AF111168, AC007376, AL031295, AL117258, U07000, AL023574, and AP000346.
HNGLL91	4680	789743	1 - 407	15 - 421		
HNGLM06	4681	919222	1 - 126	15 - 140		
HNGL010	4682	963504	1 - 562	15 - 576		D59859, D51799, C15076, D59502, D80195, C14389, D80164, D80038, D59467, D59275, D80227, D58283, D80022, D80166, D80193, D59619, C14331, D80210, D80391, D80240, D81030, D59787, D51423, D80253, D80043, D80269, D80212, D80196, D80188, D50979,

HNGL070	4683	779223	1 - 431	15 - 445	D80219, D59927, D57483, AA305409, D80378, D80366, D59889, D50995, D80024, D80045, D59610, C14429, D51060, AW178893, D80241, AA305578, C14014, T03269, D51022, AW179328, C75259, D81026, AW378532, AA514188, D80251, D80248, D80134, AW178775, D80522, D52291, AW369651, D59695, D80004, AW352158, AW178762, D51250, AW360811, AA514186, F13647, D80133, AW177501, D58253, AW177511, D80302, AI910186, D80949, C14298, AW375405, D80168, C05695, C06015, C14227, D81111, AW377671, D80268, C14407, D80132, AW366296, AW360844, AW360817, AW352117, AW375406, AW378534, AI905856, AW176467, AW179332, AW377672, AW179023, AW178905, AW378540, D80439, D80247, AW352171, AW377676, AW352170, AW177731, AW178907, AW178906, AW179019, AW179024, Z21582, D59373, AW177505, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, D51103, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, AW367967, AW360834, D80157, AW179004, T11417, AW179012, AW178914, AW378525, AA285331, D59503, D51097, D51759, AW177728, D58246, AW179009, AW177722, AW178774, AW178911, AW378543, AW352163, AW178983, AI557751, D59627, C14077, T48593, AW178781, AW352120, D80258, D59653, D59317, D58101, AW177723, D45260, H67866, AW367950, AI525923, H67854, AI557774, C03092, T03116, AA809122, AI535850, AW378533, AW177508, D51213, AW178986, AW177497, D45273, AI535686, D59551, AI525917, T02868, AA514184, D80014, C14973, AW177734, AI525920, C14344, D51221, D59474, D60010, D60214, AI525227, C14046, C14957, AI525235, T03048, AI525925, AI525242, AI525215, D59976, AI525912, AW378542, AW378539, C16955, C05763, Z33452, T02974, AI525237, H67858, AI525222, AI525928, C13958, AR018138, A84916, AI132110, A62300, A62298, AF058696, X67155, Y17188, D26022, A25909, AR008278, AB028859, A67220, D89785, A78862, D34614, D88547, I82448, X82626, Y12724, A82595, AR025207, AR060385, AB002449, A94995, AR008443, AR016808, AB012117, I50126, I50132, I50128, I50133, X68127, AR066488, AR016514, AR060138, A45456, A85396, A26615, AR052274, AR066482, A44171, A85477, I19525, A86792, U87250, Y09669, AR066490, A43192, A43190, AR038669, I14842, X93549, AR066487, A30438, I18367, AR054175, D50010, Y17187, D88507, A63261, AR008277, AR008281, A70867, AR008408, AR062872, AR016691, AR016690, U46128, D13509, I79511, A64136, A68321, AR060133, AF135125, U79457, AF123263, U87247, AR032065, AB033111, X93535, and AR008382.
HNGL080	4684	775504	1 - 728	15 - 742	
HNGL086	4685	780484	1 - 634	15 - 648	T84380.
HNGL092	4686	924891	1 - 653	15 - 667	Z59015.
HNGLR39	4687	835586	1 - 757	15 - 771	
HNGLR91	4688	789707	1 - 587	15 - 601	AC002103, and AC000401.
HNGLS86	4689	784860	1 - 609	15 - 623	

HNGLT67	4690	958777	1 - 634	15 - 648	AC004818.
HNGLT63	4691	934371	1 - 591	15 - 605	H67866, AA504865, AI699049, T11828, AI004740, AA316036, AA853861, AA721998, AA714073, AA831801, AA626595, T03928, AW089950, AA832016, AA297496, R16258, AA662614, AW019964, N63755, AA256107, R97626, AI955465, AA525407, AA827383, AW057717, AA628740, AD000833, AC004087, Z82244, AL031431, AL139054, AL049570, Z93017, AC007221, AP000355, AL078581, AL031680, AP000248, AC006545, AL049869, AC006546, Z85987, AC005191, AL021154, AC006006, AC004494, AC004067, AC004224, AC007030, AC020663, Z99716, AC006312, AC005940, AC005914, AC007536, AL031311, AL109627, AP000696, Z69042, M13792, AC007766, AC005291, AL031279, AC006211, AC012384, AC008009, AL031003, Z97056, AL133448, AL008583, AC002059, AL096702, AC006376, AC004263, AC005316, AF109907, AC004382, AC005546, AC005071, AL023807, Z96074, Z93020, AC006372, AC007021, AL109956, AC005901, AC005696, AL031728, AC002375, AL034549, AC004242, D88270, AL049569, AC002430, AC004131, Z84487, AL035659, AF196969, Z97198, AC007384, AC005156, AC007376, AC005913, AC006441, AC008015, AC005519, AC004832, AL022336, AC005792, AL033527, AC002543, Z68331, AC012085, U95742, AL022312, AP000023, AC006057, U66061, AC002350, AC006430, AF001548, U73330, AP000008, AC005317, U82668, AC008055, AC006544, Z98051, AP000466, AC007686, AC003108, AP000704, AC006450, AC000025, AC005839, AC011331, AC004585, AL022313, Z83826, AC004671, AF001550, AC004125, AL035072, Z98941, AC004920, AL022162, AC005154, AC005247, AC005220, AC004158, AL035420, AC006965, AC005509, AL033377, AP000505, AC006042, AC007429, AC006146, AL133163, AC005622, AC004253, AL031657, AC004099, AC005670, Z82217, AL137447, I34294, AC005632, AC006530, AC005730, AC005005, Z82215, AC005874, AF134471, Z83840, AC005081, and AC005971.
HNGMA49	4693	860244	1 - 324	15 - 338	AW069159, AA525760, AW020321, D80522, AA468131, AA468022, AI866160, AA714110, N55508, AA666332, AI828733, W03286, AW327868, D80043, AW277171, AL038799, D80188, AW401408, D80251, AL120959, AI561097, D80366, D80253, AI470431, AW089101, AA846952, AA449594, AA092078, AA668807, AW168420, AA502858, AI912638, AA536016, AI751216, AI470437, AA303007, AI559251, AW380254, AW055226, AL119691, AA083379, AA326372, AW189113, AA487567, AW103509, N40815, AW103758, D80247, T11417, AA188670, D58283, AW117951, AI124610, AI817976, AA220943, AI674174, D50979, N73855, AA809122, AA502860, D59474, AA446544, AI472222, C16955, D80014, AA572773, AA203135, AA181823, R95139, AI932599, AA312559, AL038072, AA428545, AW148792, AA828781, AA828758, AA826134, AA828771, AA828802, F01109, AI309375, AA297098, AA853836, F32808, W05405, AA503258, AA515753, AA302973, AA984258, AL044904, AI254913, AA598551, AI357924, AW275425, H67854, AA706480, AA657459, AA828227, AL135743, T08298, AA953609, AI969436, AA587517, AI809745, AA655010, AL038705, AW271235, AA167284, AI025864,

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HNGMB26	4694	860166	1 - 305	15 - 319	
HNGMB33	4695	773752	1 - 529	15 - 543	
HNGMC51	4696	860243	1 - 669	15 - 683	R17449, and N87385.
HNGMD03	4697	923041	1 - 487	15 - 501	
HNGMD04	4698	927026	1 - 467	15 - 481	
HNGME93	4699	793483	1 - 528	15 - 542	AA480977, AA805135, AI356458, AI521314, AI797957, AI809163, AI082368, AI672772, AW268815, AA709444, AA625108, AW205440, AI193354, AA810765, AA837382, AA480976, AI743503, and AC008119.
HNGMF04	4700	860242	1 - 705	15 - 719	AA678970, AI054341, AI792623, AI054090, AI246061, F33126, AA278496, AI135605, AA135988, AI251944, AA135811, AW303098, AA714073, AA657910, AI037430, AA706202, AA515172, AI561210, AI434365, H72943, AI862790, W63553, AI133906, AI133902, AI302350, AA502813, AI636734, AI473549, AA378207, AA862029, AW026867, AA488419, AA527109, AA595504, AA297145, F08866, H24957, AA468975, AI049504, AW392414, AA024443,

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HNGMF11	4701	966114	1 - 147	15 - 161	
HNGMF46	4702	795236	1 - 443	15 - 457	D30932, R14811, F06803, Z44371, H29207, AC006359, AC002504, and AP001172.
HNGMF79	4703	772974	1 - 719	15 - 733	
HNGMF94	4704	966091	1 - 583	15 - 597	
HNGMG06	4705	934318	1 - 380	15 - 394	
HNGMG08	4706	958361	1 - 378	15 - 392	
HNGMH80	4707	775503	1 - 532	15 - 546	AA136477, AL049742, AC006511, AL031295, AL033377, AL031985, AL109963, Z95116, AC006530, AC004963, AL080243, AC004149, AC004106, and AC002565.
					AC004147.
HNGMH93	4708	791725	1 - 415	15 - 429	
HNGMJ04	4709	923011	1 - 270	15 - 284	
HNGMJ89	4710	786340	1 - 566	15 - 580	
HNGML07	4711	952224	1 - 654	15 - 668	AC002484.
HNGML53	4712	860240	1 - 654	15 - 668	
HNGMM51	4713	860201	1 - 488	15 - 502	AC007787.
HNGMM54	4714	933358	1 - 208	15 - 222	AW239562, and Z83841.

HNGMM87	4715	806036	1 - 468	15 - 482	
HNGMV73	4716	806000	1 - 510	15 - 524	AW021116, AF111168, AC007221, Z98742, AC007649, AC005288, L78833, AL021939, AL121825, AC005484, AC004033, U29895, AC005562, AC005500, U80017, AC006966, AC002455, AC004820, and AC007151.
HNGMW52	4717	860231	1 - 583	15 - 597	
HNGMW92	4718	790852	1 - 616	15 - 630	
HNGMX80	4719	786255	1 - 312	15 - 326	
HNGMX87	4720	835612	1 - 521	15 - 535	W05155, AA195301, AA424985, AA234376, AA372119, AA724177, H72335, AA316629, and AC004126.
HNGMX91	4721	789680	1 - 330	15 - 344	Z69714, and Z72521.
HNGNA23	4722	779201	1 - 122	15 - 136	AA582993.
HNGNB01	4723	915258	1 - 70	15 - 84	
HNGNE65	4724	963425	1 - 566	15 - 580	Z54072.
HNGNF40	4725	861967	1 - 676	15 - 690	AL022241.
HNGNG37	4726	847818	1 - 561	15 - 575	AA579385.
HNGNH03	4727	922831	1 - 566	15 - 580	T07903, AI521042, AI135761, AI172103, AA484892, AA668421, AI445699, AL036536, F02264, AA768179, F04185, AA676592, AA846014, AI370470, AA610644, AA613761, H88641, AI205181, AA741403, AI298079, AA558366, AA664126, AA229422, R99076, N78600, AA52724, AA740571, AA297006, AA491767, AW151761, AI702049, AI758424, AA297195, AI002952, M77908, U91326, AC002544, Z83840, Z82208, AL079295, AC005488, AL035086, AL035457, AL020997, AC007240, AL049830, AC007371, AC007227, AC007421, AC004583, AC005520, AC003043, AC005519, AC020663, AC006014, AC006468, AC007308, AC005722, AL049776, AC006387, AC007993, AC004983, AL031848, AC002470, AP000008, AC006241, AL031291, AC005940, AC009516, AC004975, Z83826, AC003688, AL049872, AC004134, AF111168, AC004131, AC006948, AC005377, AL050318, AC006064, AC003665, AC004832, AC002553, AC005274, AC016025, AL096701, AL080243, AC007934, AC005859, AC007537, U91323, AC005014, AL132712, AL022323, AC007226, AP000553, AC002996, AP000569, AC003029, AC005971, U95743, AC002367, AC006088, AC005049, AC000134, AC004883, AL031767, AC005409, AL050348, Z99716, AC005031, AB023050, AC004222, U62293, AL121655, AC002350, AC004185, AL031659, AC018633, AL022721, AC006160, AC005529, AC006077, AL008635, U80017, AC005914, AC007666, U85195, AC006211, AC005215, AC002059, AC006285, AC005057, AC004408, AC005822, AB014077, Z85986, AL132777, AC004854, AL121652, AC007566, Z98048, AC004526, AF196969, AC004895, AC005996, AC008044, AC003101, Z98742, AC006540, AC007774, AE000658, AC006138, AL008718, AL109758, AL078476, AC005620, AL121923, AC004531, AL049760, AC007546, AL022320, AL049694, AC005512, AF111169, AL031680, AL049540, AC005041, AL080160, AL020993, AL132718, AL034429, AP000114, AL096791, AC008372, AC003109, AC005479, AC004209,

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HNGNI04	4728	926985	1 - 480	15 - 494	AC000404.
HNGNI52	4729	781913	1 - 566	15 - 580	
HNGNI75	4730	860168	1 - 512	15 - 526	
HNGNI94	4731	893899	1 - 357	15 - 371	
HNGNM24	4732	841902	1 - 300	15 - 314	AC005356. AA302963, AA559290, AA491814, A1754955, A1264743, A1358343, AA747276, AA682912, AW088202, A1284640, AA747480, AA804379, A1610159, F36273, R91994, A1580652, AA074130, A1801600, AW193432, AA708678, F23279, AL079812, A1053672, A1653886, AW303876, A1569086, F28576, A1749284, A1499938, AW247819, A1902694, A1049722, A1679045, AA515051, A1431303, AL046409, F32894, A1312149, F18974, A1281881, AA649642, AW238016, AW080134, T08914, F25276, AW236342, A1119691, A1471481, A1929531, AA306732, AL041412, A1254615, A1287964, A1688846, AA664535, AA503258, T53607, AA947547, AW273218, A1301700, AW419262, AA934680, AA714453, T40338, AA664407, AW029038, AL047643, AW301350, AW303196, AW193265, A1299050, AW274349, A1334443, A1358571, A1375710, A1357551, A1709365, AA747472, A1286356, A1252554, AA229785, A1350211, AA745582, AA977743, H64777, AA350859, AA663306, AW440976, W07122, A1291124, AW024008, AA744220, AA469451, AL041706, A1801591, A1761471, AA492132, A1339850, A1473943, A1567674, A1962050, AA252763, AA603445, H64560, A1446464, AW166815, A1446601, A1110770, AA533725, AW276827, A1079910, AA515435, A1291268, A1270248, A1287528, AA654968, AW162049, AW250970, AW062724, A1133164, A1537030, AW131034, AW104748, AW088058, AW023389, A1648558, AA441788, A1303008, A1452599, AL043721, A1289067, AA614069, A1184226, AA810318, T56067, A1937850, A1251002, A1567391, AA100599, AA501614, A1298710, AA557879, A1625244, AA557686, AA826303, A1499134, AL041690, AA371567, AA526339, AA659083, AW021747, A1367975, AA488395, AA578918, A1919029, AW440633, A1133636, AW406659, A1887483, AA133986, AA713815, F28776, A1469624, T07451, A1610920, F19012, AW339568, A1246796, AA483068, AL135643, A1624698, AW276435, A1061296, AW261871, A1687962, A173651, AA878140, AA525190, A1287651, A1017024, AA975645, A1904894, A1379719, AA491762, A1568678, A1434695, AA584489, AA702023, A1143242, A1471543, A1205126, A1674873, AA085023, AA658093, A1281697, AA099892, AA152463, AA633936, A1423941, A1282832, AA225155, N25296, A1539563, AW440836, AA828704, A1890923, AW265385, A1469003, A1537955, A1917271,

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HNGNO03	4733	860155	1 - 518	15 - 532
HNGNR04	4734	926870	1 - 599	15 - 613
HNGNS10	4735	963470	1 - 719	15 - 733
HNGNS58	4736	788971	1 - 306	15 - 320

HNGNS90	4737	787388	1 - 453	15 - 467	
HNGNV80	4738	908167	1 - 440	15 - 454	
HNGNW04	4739	860199	1 - 439	15 - 453	<p> AI904044, AI799421, AI475294, N22501, AA827383, AA126221, AI520925, AI030309, H43183, AA524846, AI871691, AI671077, AA774119, AI446623, AW270429, AW270351, F23268, H59856, AA084320, AW129188, R31264, R66407, AA218684, AL138252, AI805699, N71579, AA831801, H05066, AA171400, H24331, AW338376, AA230221, AI890297, AI819391, H23238, AA832016, AA577719, AA662431, R31260, T92237, H80621, AI683426, AI859744, F07564, AA228442, AA653291, AA368329, AW238495, AW019964, AI453160, AI564294, AA633197, AA632765, AI798242, AI471467, AA595656, AW265149, AA678616, H59611, AA610255, AL048002, AA831997, AA508882, H58393, H59651, AW439724, AA609826, AA558404, AL138065, AW151761, AA767257, AA579399, AI668566, N55515, AA434346, AW408767, AA628740, H15241, AA351808, AA569220, AW007424, AA664248, AI758858, F23221, AI889426, F04838, AI537800, AI860535, AI755057, AA454504, AA741301, T73016, AA664924, AA313078, H64715, AA578394, AW005974, W96522, AI821659, AI879951, AI246061, AI624379, AI927261, AA807704, AI469468, AA580572, AI275989, AI627917, AL079303, Z92542, AC005800, AC002312, AL133241, AC002433, AC008015, AL008638, AL031681, AC004549, AC006465, AC006959, AC002487, AC008928, AL049553, AC002375, AC007559, AC005608, AC006312, AL049694, AL121825, AC004738, Z74021, AF190465, AC004241, AC004616, AP000953, AC007130, AC005316, AC005317, AC002310, AC002301, AC005535, AC007226, AC007225, AC004653, AC006388, AL031588, AC006441, AL049569, AL049761, AP000952, AL121603, AC005082, AC007686, AC005740, AC004749, AC004231, AC012099, AL035603, AL023807, AC004650, AP000098, AC004448, U47654, AC005480, AC006344, AC004685, AC008080, Z95152, AC005067, U43572, A51133, A76958, M84472, AC000024, D87011, U95090, U34879, U82668, AC005696, AL022238, AC007401, AC005355, AC005365, AL049814, Z84719, Z97056, AL031729, AL080317, AC006455, AC006039, AL135744, AL109628, AC002559, AC005017, Z98304, AL022237, AC006263, AC006966, AL023283, AC006208, AC004686, AL031587, AL133249, AC005189, AC002316, U62292, AC006254, AC004593, D86995, AL031728, AL132987, Z81369, Z68162, AC004185, AC006047, AC005775, AC003104, AP000694, AP000692, AC004797, AL035696, AC004953, AC009542, AC007263, AC009330, AC006065, AF109907, AC006130, AC004583, AL049565, AL109984, AC005378, AC004253, AC002094, AC006350, AF111170, AL035455, U96629, AL022165, AL022069, Z82244, AC004596, AC005773, AL031281, AL117694, AC004887, L44140, Z99716, AC004112, Z99943, AC004212, M22970, AF113129, AC003964, AC007308, AL021546, AC005206, AC005667, AL031659, AC003982, AC004706, AC007032, AL031848, AL023803, AC007684, AC005015, AL022329, AC002470, AC004882, U89387, AC007277, AD000812, AC005565, AC006162, AL035398, AC002126, AC012330, AC007708, AL034379, AC004999, Z95115, AC009288, AC005030, AC008132, AL117258, AC007325, AC005598, AC007981, </p>

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HNGNW85	4740	783747	1 - 447	15 - 461					Z83846.
HNGNX37	4741	806018	1 - 683	15 - 697					AC004549.
HNGNX65	4742	806042	1 - 706	15 - 720					AC007376.
HNGNZ01	4743	860158	1 - 507	15 - 521					AA853836, AL046225, AL045756, AL049569, AB023050, AP000511, AL031681, AC006946, AC004216, AC009501, AC002117, AL022165, AC006011, AC006057, AC005237, AC005179, AC004887, AC005102, AC005520, Z83846, AC004491, AP000350, U95090, AC004967, AC004617, AC005488, AC005037, AC006167, AC007193, AL033524, AC005082, AC003684, AC007021, AP000512, AC004832, AF064858, AF030453, AC005088, AP000065, AL049869, AL049843, and AC004408.
HNGNZ38	4744	790926	1 - 562	15 - 576					AC000025, AC005527, AC002991, AC005529, X89398, and AC007637.
HNGNZ91	4745	839887	1 - 508	15 - 522					AA923791.
HNGOA11	4746	966082	1 - 512	15 - 526					
HNGOA82	4747	779154	1 - 435	15 - 449					
HNGOB95	4748	791700	1 - 502	15 - 516					
HNGOD68	4749	790805	1 - 288	15 - 302					
HNGOE64	4750	860143	1 - 551	15 - 565					
HNGOF50	4751	796548	1 - 501	15 - 515					
HNGOF84	4752	782188	1 - 320	15 - 334					
HNGOF85	4753	783717	1 - 792	15 - 806					
HNGOG49	4754	971178	1 - 667	15 - 681					
HNGOH42	4755	958943	1 - 506	15 - 520					
HNGOI86	4756	806013	1 - 639	15 - 653					U73641.
HNGOJ13	4757	921433	1 - 325	15 - 339					
HNGOI64	4758	860193	1 - 473	15 - 487					D80134, D80164, T03269, D59467, C15076, D81030, AW178893, D58283, D59859, D80022, C14331, D80166, D80195, D80193, D59927, D51423, D59619, D80210, D51799, D80391, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AW352117, D80269, D80212, D80366, D80196, D80188, AW177440, D80219, AW179328, AA305409, D80045, D80038, D57483, C14429, D50979, D50995, D59889, AW378532, D80024, D59610, C14389, C14014, AW178775, D51060, AI905856, AW360811, AW375405, AW178762, AW352158, AW377671, D58253, AW177501, AW177511, D51022, D80132, AW179332, AW366296, AW360817,

HWGOK59	4759	789689	1 - 244	15 - 258	AW375406, AW378534, AW377672, AW179023, AW178905, AA305578, D81026, D80248, D51097, D80522, AW352171, AW377676, AW352170, AW177731, D80133, AW178907, AW179019, AW179024, AA514188, AW179329, AW178906, AW179020, AW360834, AW178980, AW177733, AW378528, AW178908, AA514186, D80302, AW178911, AW178914, D80268, AW367967, AW178774, D80439, D80247, T48593, D51103, C06015, AW352174, AW378533, D45260, D80390, A1525913, A1525923, AA285331, C03092, A1525917, AA514184, A1525925, A25909, Y17188, A84916, A67220, D80785, A62300, A62298, A78862, D34614, D26022, AJ132110, X67155, D88547, AR018138, X82626, AR025207, Y12724, AB028859, AR008278, AF058696, AB012117, A94995, A85396, AR066482, A44171, AR008443, A85477, I19525, A86792, I50126, I50132, I50128, I50133, I18367, X93549, AF123263, AR066488, AR016514, A82595, AR060138, A45456, D50010, Y09669, AR060385, A26615, AR052274, AR066487, A30438, A43192, A43190, AR038669, AB002449, D13509, AB019242, AR066490, D88507, Y17187, AR008408, A63261, AR060133, A70867, AR062872, AR016691, AR016690, U46128, A64136, and A68321.
HWGOK59	4759	789689	1 - 244	15 - 258	AC006274.
HWGOK86	4760	784813	1 - 703	15 - 717	AW169469, A1648558, AA565844, AA491697, F32710, AA917906, N71340, N71390, AA584151, AA993165, H91358, A1653783, AA487995, AW193500, W24602, AW173443, A1925559, AA598617, AA487884, AL040948, W38468, AA479033, AA742775, R59868, T50568, AA721561, AA148656, T50436, AA361244, AA402102, AA922633, AA687542, AA229443, A1635819, AA424280, A1150131, A1914151, H80203, AA077646, T52997, AL048002, A1863176, AA649660, T86151, AL047480, T16065, A1557342, A1564215, AA348422, A1497727, W44607, N55012, R17793, AL138242, A1274006, AA470958, A1921692, A1744381, A1567831, A1445768, AA363150, AA586553, D25667, AA374525, A1889648, A1613487, A1336206, AA427747, AA679512, A1689135, AA010672, T61362, AA837739, AA493852, AA568314, AA491545, W79083, AA507990, A1912505, A1188963, AA078384, R30966, A1628482, AA984829, AW029626, A1888050, H73306, M77894, A1538433, R68503, AA632493, AA632484, AA384064, AA837796, A1885488, AA713534, W236277, AA650348, AA845333, AA524504, H47461, A1754286, W45073, A1215784, H05449, AA526099, A1572680, R81455, AA632994, AP000558, AL035420, AC005183, AC009516, AC006582, AL079342, AC006031, AL079334, AC006487, Z93096, AC003025, AF139813, AP000356, AC006536, AC004228, AC005158, AC000387, AC004622, AL096791, AL035462, AL049569, AC000066, Z99128, AP000855, AC000120, AJ010770, AC000379, AL031276, AC002312, AC006042, Z68870, AL031589, AL009181, AL023284, Z97183, AL049694, AL035086, AP000317, AP000051, AP000119, AP000166, AJ006952, AC007263, AL080286, AC005837, AL132985, Z86090, AL096774, AC004134, AC005913, AC003071, AC005972, AC005578, AC000085, AC0003693, AL121754, AJ006345, AC004701, AL109963, AC005562, AC002044, AL049856, AL035417, AL031670, AC005043,
HWGOL14	4761	860185	1 - 342	15 - 356	

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HNGO022	4762	953888	1 - 143	15 - 157	AA631933, AI859906, AL049694, AC004974, AC007358, AL031680, AF178030, AC004851, AP000696, AP000697, AC007746, AC010197, and AC005876.
HNGOP04	4763	926972	1 - 411	15 - 425	AA424261, AA868202, AA639008, and AA721512.
NGOPI0	4764	963483	1 - 438	15 - 452	AW148507, AA837087, AA126519, AW410354, AA664942, AA402129, AI537772, AL633762, AI341571, H25921, AA890425, AI096442, AW088581, R97336, AF034194, AF037630, AW027660, AW177790, AA380354, H95302, AA455483, AI623764, AA730422, AA070345, AW081303, AA324242, AA137013, AA551181, AA601356, AL021940, AL022396, AC003070, Z92542, AC005512, AP000193, AC005180, AP000117, L35667, AC004148, AC005483, AC007671, U85195, AC005181, AE000658, AC005520, Z97876, AC012384, AL117338, AC005513, AF135187, AC003104, AF129756, AL034549, Z98884, AC004453, AC005409, AC006045, AC008273, AC005736, AC005612, U73638, AC007193, AL022399, AL031848, Y14768, AC005751, AF172277, U51244, AC005042, AC005833, Z93017, U07562, AC007055, AC004685, AC004797, AL022238, U50537, AL023096, AC004874, AC003009, Z15025, AB020865, AC004976, AC005037, AC006441, AC005305, AL049546, AC006578, AL031284, AL022312, AC002468, AL031289, AL035078, AC005668, U45984, AC006199, AL031432, AP000331, AP000501, AF030453, AC004656, AC004694, AL022315, M58509, AC004799,

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HNGOV03	4766	922963	1 - 398	15 - 412	AC005844.
HNGOV65	4767	921416	1 - 284	15 - 298	
HNGOW13	4768	926929	1 - 408	15 - 422	
HNGOY01	4769	915210	1 - 680	15 - 694	
HNGOY10	4770	915012	1 - 372	15 - 386	
HNGOZ17	4771	880777	1 - 234	15 - 248	
HNGPH12	4772	969683	1 - 421	15 - 435	AL031654.
HNGPI08	4773	947384	1 - 681	15 - 695	AA830964, R60323, AL536908, R73479, AA470779, AA113170, AW062702, AW029617, AC004953, AF024534, AC005086, and AL031588.
HNGPI23	4774	855983	1 - 697	15 - 711	
HNGPI51	4775	805997	1 - 594	15 - 608	AC007157.
HNGPL91	4776	959740	1 - 496	15 - 510	
HNGPN01	4777	913782	1 - 531	15 - 545	
HNGPN46	4778	954997	1 - 576	15 - 590	
HNGPP61	4779	860145	1 - 500	15 - 514	AL096791.
HNGPR03	4780	949269	1 - 175	15 - 189	
HNGPS10	4781	963469	1 - 590	15 - 604	AA878407, AA525331, AW381823, T69571, AL134167, AA904211, AA657910, AW381816, AW054936, AL671077, AA318492, AA557984, AW392414, AA318209, R70883, H29914, R70884, AA658934, AL923052, R93919, AA279919, AA122307, H43183, AA772704, H67064, AA445908, AL889579, AL198718, AL044339, AA523695, F35902, AL280266, R69527, AA584525, AA070330, AA805573, AA504951, H43771, AA827904, AA804334, AL914713,

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HNHAB29	4782	860141	1 - 132	15 - 146	Z98886.
HNHAB93	4783	527921	1 - 136	15 - 150	
HNHAF77	4784	527971	1 - 123	15 - 137	
HNHAG50	4785	527815	1 - 217	15 - 231	
HNHAG51	4786	725898	1 - 222	15 - 236	AA974734, AW072398, Z39952, F03162, and AL137476.
HNHAG64	4787	527809	1 - 234	15 - 248	
HNHAH38	4788	860118	1 - 411	15 - 425	
HNHAH84	4789	527806	1 - 274	15 - 288	
HNHA111	4790	967668	1 - 479	15 - 493	AA834563, AA707629, and AA465337.

HNHAI15	4791	860128	1 - 115	15 - 129	
HNHAI68	4792	527572	1 - 151	15 - 165	
HNHAI59	4793	703576	1 - 404	15 - 418	
HNHAK83	4794	574391	1 - 307	15 - 321	
HNHAP79	4795	574384	1 - 125	15 - 139	AA835691, AA261783, and AI660038.
HNHAW75	4796	515480	1 - 637	15 - 651	AI866487, AL038971, AI631119, AW167374, AI445088, AA904211, AA613624, AI469599, AW301483, AA503019, AI173334, AI017251, AA578832, AA832145, AI719142, AA236867, AI857836, AI281818, AW167330, AA630535, AI362442, AW021583, AF050154, AJ249921, AC005015, Z84466, AL035413, AC005529, AP000692, AL096701, AC005821, AC005527, AL121653, U91326, AC007225, Z98946, AC005225, AC006088, AL035587, AL109984, AC006026, AC006538, AC005933, AC004841, AC007011, AP000694, AC006449, AC007308, AL133246, AC005280, AC005755, Z93023, Z85987, AC007216, AC005089, AL080243, AC004929, AC007193, AC006285, AL049569, AL021154, Z93017, AL024498, AC007386, AP000501, AL031311, AL121603, AC007298, AC002470, AL022330, AP000557, AC006441, U91321, AP000510, Z86090, AC006312, AC007664, AC005207, AC007277, AL020993, AC006241, AL035071, AC007546, AC004019, AC004491, AC009516, AC005520, AF001549, AC004032, AC004216, U95739, AC004686, AC004814, AC005300, AC005291, AC005907, Z83844, AL133163, AP000116, AC004858, AF111168, AC007055, AC002350, AC006275, AL035659, AP000555, AC005011, AC004890, AC002126, AC004685, AC005779, AL136295, AC002352, AL031295, AC002398, AL022336, U85195, AC007707, AL109798, Z82214, AC005899, AP000696, AC007199, AC005288, AE000658, AC007537, AL049539, AP000065, AC005088, AC005702, AC002302, AL109628, AL034417, AL049766, AC007731, AL024508, AC006277, AP000553, AL022165, Z99716, AC005914, AC005500, AF053356, AC004534, AC007052, AC006211, L78810, AF038458, AL139054, Y14768, AC005736, AC005618, AC007114, AL133448, AC004876, AL049757, AC004084, AP001053, AC003070, AC004033, AC004000, AF109907, AC006965, AC004796, AC005484, AL021155, AP000505, AL035455, AC000379, AC006544, Z85986, AC004134, AC004851, AC002312, AC005412, AL035422, U96629, AC007358, AC004963, AC005730, AF129756, AC002404, AC005071, AC005940, AC007666, AC005081, AC000025, AF134726, AL049872, U91323, AL022326, AC005519, AC004832, AC004099, Z97054, AL109758, Z93244, AC005049, AF196969, AL031985, Z82203, AP000030, AC002558, AF196779, AL049709, AC005082, AL022311, AL121658, AC004386, AL034423, AP000512, AC004922, AC006251, AL117258, AL031584, AC004865, AL031685, AC006581, AL008582, AC005409, AC005037, AC004253, AL132712, AC002544, AC002115, AL050307, AL035086, AL022313, AC007030, AC004805, AL034548, AC005480, AL035683, AP000251, AC006064, AL031662, AC005057, AC003101, AC005531, AL022320, AC005399, AC007919, AL035400, AC005619, AC008044, AC005086, AL024507, AC004883, AL117694, Z82244, AC002045, AC005972, AF107885, AC007688, AC005488, AC002301, AL110502,

HNHBC30	4797	693318	1 - 250	15 - 264	AL031281, Z84480, AC005694, AP000117, and Z94801.
HNHBE19	4798	724404	1 - 349	15 - 363	AA594550.
HNHBH62	4799	574387	1 - 308	15 - 322	
HNHBH72	4800	577334	1 - 386	15 - 400	AC004520.
HNHRK22	4801	574305	1 - 259	15 - 273	AA758873, AC004770, and AL117582.
HNHRK59	4802	959771	1 - 292	15 - 306	
HNHRK80	4803	721688	1 - 227	15 - 241	
HNHRM63	4804	574310	1 - 290	15 - 304	
HNHRM66	4805	860119	1 - 361	15 - 375	
HNHBO20	4806	793416	1 - 652	15 - 666	Z65368.
HNHBO71	4807	868059	1 - 310	15 - 324	
HNHBO83	4808	526746	1 - 223	15 - 237	
HNHBQ53	4809	574090	1 - 162	15 - 176	AC003954.
HNHBS07	4810	953850	1 - 411	15 - 425	
HNHBS23	4811	574048	1 - 314	15 - 328	
HNHBS38	4812	925693	1 - 956	15 - 970	
HNHBU20	4813	669866	1 - 243	15 - 257	
HNHBU21	4814	574030	1 - 350	15 - 364	
HNHBU37	4815	574139	1 - 326	15 - 340	
HNHBU79	4816	597123	1 - 255	15 - 269	AC005067.
HNHBU82	4817	577193	1 - 382	15 - 396	AW005603, AA504818, AW021007, AA632556, AI054090, AI246061, AA135988, AA714073, AI678476, AA244181, AI591134, AW079667, AI343669, AI309121, T55707, AI445373, T07225, AA878407, N66927, N69399, AI049701, AA493447, AA632765, AI471467, AI183394, F18761, AA135811, AI431513, AI439676, H79586, AI869786, AA657910, AI300413, AI342786, AA995373, AI869797, AA713705, AI284543, AA599749, AI762302, R83068, AI254770, AA297961, AI251944, AI251034, AI251203, AI251284, AI800706, AA613162, H93717, AI635196, H42893, F31811, AW007424, AI884861, AI250552, AW303098, H43183, AA527109, AA845825, AA678616, AI223968, N52293, AA610255, AA804729, AI049504, AI302277, AI561210, AA569734, AI499941, AI002762, AA325250, AI915081, AI564301, AA376896, AI251024, AI143653, AI520967, AI249853, AA595656, R71796, AI628859, AA744048, AW019964, AA358337, AI137946, AI376197, AI567941, AA778962, AA226770, AA083681, AA594227, H86579, AA632839, AA083839, AA053463, AA568425, AI609574, AA565911, AA744428, AI539822, AI300818, AI310992, AA856866, H52472, AI653783, F08214, W78056, R80563, AA569597, AI733647, AI733662, AA743976, R35259, AI453160, AA449979, Z96216, I78442, AI078621, AC005015, AI027211, AC004887, AC006516, AC008101, AC008070

HNHBU91	4818	765815	1 - 220	15 - 234	AL132985, M87889, AP000228, AP000140, AC006141, AC007314, AP000088, AC005669, AC004149, AL078581, U78027, U91320, AC004148, AL022323, AL035422, AC019014, AL049779, AL079305, AC002368, ZR4497, AC004150, AL049176, AF207550, AC007684, AR022785, AL049631, AC006360, AL033381, AC005157, AC006947, AC005244, AL078583, Z97205, AC004785, AC004645, AL031003, AC006111, AL049766, AC006251, AL022240, AL021155, AC007376, AC005392, AP000065, AC002559, AL050337, Z96074, AL031846, X81637, AC002319, AP000157, AC004836, AC004702, AC004686, AP000014, AL096701, Z92979, AC002549, AC006540, AC005574, AL096774, AF190465, AL008635, AC007263, AC003037, AL031733, I34294, AF060911, AC004651, AC002128, AF108083, AC003109, U95742, Z82215, AC002351, AC005486, AC007226, AL121652, U02051, AC002045, AC005933, Z75407, AF051976, AL049552, AC002310, Z93241, Z98941, AC004883, AF064861, AC002430, AL020995, AC007384, AF006752, AC004901, AL035407, AL035464, AC004884, AC006996, AC005245, AC002492, AC006127, AC005221, AC005480, AL031666, AC002477, AC004477, Z92542, AL122020, AL021917, AL096818, AC000093, D88268, AL121825, AC005017, AC007350, AL133353, AC004216, AF064858, U66536, Z68754, AC005932, AC004528, AC004815, AF196972, AL031670, AC004033, AC005030, AC005040, AC005500, AC007075, Z73964, AF165141, AC002117, AC006030, AC007880, U91327, Z82203, AC007193, AC003009, AC005184, AC005534, AC005011, AC003035, AC005553, AF111167, X95887, AC005625, AP000326, AC003100, AP000122, AP000054, AP000169, AC004466, AC003957, Z83844, AC007308, AC006515, AC002470, AC005411, L78833, AC004232, AC002316, AC006062, AL031295, AC005587, AC005332, AC005046, L81693, Y11107, AC002106, AL022302, AL031255, AC003678, AC005755, AL049565, Z84486, AC004938, AC008149, AL049713, AC004522, AL035443, Z95325, AL034423, AC005609, AC005921, AC007371, AC007216, U52112, AC004083, AC005229, Z98304, AF049895, AC004823, AF144755, AF024533, AC004778, AC004750, AP000256, AC000035, AC005568, AL031007, Z93783, AC004752, AL109956, AL121838, AP000098, AC005049, AL008583, AL021707, AC000025, AC004104, AC006006, AC005509, AP001052, AC005527, AC006213, AC002070, AC007051, AC007731, Z99716, AC005529, Z68192, AL049793, Z69715, and AC004694.
HNHBU92	4819	753550	1 - 320	15 - 334	
HNHBU93	4820	757745	1 - 404	15 - 418	
HNHBU95	4821	574026	1 - 236	15 - 250	
HNHBU96	4822	936012	1 - 356	15 - 370	AI732313, AI732389, R48562, R69392, AA598605, AI283938, T48780, AA525331, AA302978, AI039257, AA857812, AA809089, AA468975, AA351427, AA862075, AA225273, AA156323, AI473671, AI537020, AA481887, AA828844, AA613761, AA551105, AA570238, AA904211, AI719298, AA878492, H90114, T07327, F00688, AI984118, AA368616, AA602477, AA502991, AI064786, AA135988, AA491767, R06030, AA612727, AA493789, AA829036, AI066711,

AA804995, AA085410, R98002, H49253, AA523695, R97239, T94072, AA128941, F29968, AA578621, A1246080, AA364082, A1679871, AA778962, A1886736, AA303054, T58440, H95865, A1246996, A1679294, AA021189, AA452325, AW328446, A1277373, AA847499, A1278440, AA378474, A1332615, AA742818, A1742168, AA349606, AA096724, A1309943, T07903, AA021429, AA018588, AA021428, AA054055, W78032, AA086042, AA587835, AA661583, T05684, AA342626, W01323, AA458573, AA721572, AA019872, N26230, AA397821, AA135811, AA714011, AW023111, A1653783, A1590926, AA765925, AA599423, A1034555, AC007055, I34294, AL078600, AC007227, AC005300, AC005082, AF205588, AC004859, AC007536, AC005778, AC005914, AC000134, AL022313, AP000010, AL109827, AB015355, AL080243, AC004253, AC007193, AL031291, Z15025, AC005913, AC005588, AL031283, AL035086, AC008372, A1246003, Z98884, AC004896, AL117337, L05367, AC005736, AL109984, AC006166, AL022323, AC002350, AC006479, AP000032, AC004876, AC006538, AC006312, AC007056, AL117338, AC006449, AC005089, AL049780, AC004129, AL022328, AC005037, AL121658, AC002477, AC006251, AL136501, AL121653, AC007842, AL117344, AC004134, AC005081, AC004686, AC007263, AC004408, AC006966, AC007308, AC005200, AC004841, AL008729, U47924, AP000313, AC006084, AL024498, AC002470, AF045555, AP000194, AC004820, AP001052, AL132712, AC005971, AC006213, AC004983, AP000493, AL022318, AC005254, Z95115, Z75407, AC004520, AB023051, AC004973, AC004905, AC006001, AC003684, AL133163, AL049575, AC005015, U52111, AP000226, AP000350, AP000356, AC004890, AP000050, AC005261, AC000024, AL049694, AL096702, AC005317, AC006115, D87011, AC016830, AC006000, AC005484, AC005562, AF038458, AC004967, AP000144, AL049874, AP000087, AC005332, AL031133, AC002565, AC005527, AL031622, Z84476, AC004231, AC007785, AP000117, AP000355, AC004814, AC008101, Y14768, Z98200, AL133243, AC005316, AL022324, AP000505, AC006065, AC005622, AC005821, AC005529, AC002531, AF196970, AC006515, AC006237, AL031432, AC004815, AC004753, AL109967, AC004491, AL034420, AL109758, AC006271, AC009542, AC007544, AL049712, AC005369, AC007540, AC007225, Z99716, AC002425, AF001549, AC003007, AC005099, AL021707, AF129756, D87009, Z97054, Z99943, AL049198, AF111167, AL035398, AC007792, AL121595, AL133382, AC005531, AL031230, AL021808, AC005632, AC007546, Z84486, AC005088, AL132987, AL049776, AC004228, AF030453, AC005542, AP000513, AP000695, Z94056, X55448, X54486, AL034548, AC004927, AP001065, Z95331, AC006012, AC005786, AC003101, AC004832, AF146191, AL034375, AC005789, AF069489, AP000553, AP000512, AL050318, Z68276, AL139054, AF207550, AC007314, AF104455, AC010200, AC002074, Z98950, AL109854, AC006581, AC002310, M55987, AL031655, AF109907, AC004955, AC004805, Z97055, AC004526, AC008079, AL049643, AC005901, AP000104, A1229043, AL021453, AC003035, AL031427, AC005004, AC002094, Z75744, AC009516, AC006211, AC005072, AC002126, AC004663, AC005189, AC005399, AP000167, AP000052,

HNHBY45	4823	774280	1 - 377	15 - 391	AC006262, AF165926, AC004821, and AL022336.
HNHBY60	4824	964712	1 - 218	15 - 232	AL031654.
HNHBY83	4825	694401	1 - 478	15 - 492	AC004258.
HNHBZ03	4826	924873	1 - 387	15 - 401	
HNHCC42	4827	577343	1 - 345	15 - 359	
HNHCD63	4828	574309	1 - 384	15 - 398	AC007758.
HNHCE68	4829	574028	1 - 425	15 - 439	
HNHCJ25	4830	679154	1 - 407	15 - 421	
HNHCJ35	4831	860112	1 - 409	15 - 423	
HNHCJ39	4832	574084	1 - 117	15 - 131	AC005390.
HNHCJ68	4833	753558	1 - 237	15 - 251	
HNHCJ71	4834	760565	1 - 225	15 - 239	
HNHCJ80	4835	786033	1 - 485	15 - 499	AA135377, AI016828, AA572714, Z77249, AC005899, AL022336, Z96074, AC004841, AF111168, AL049780, AL035249, AF048728, AL080317, AC004605, AC009721, AC005033, AC005067, AL049776, AC004797, AC006544, AF203588, AP000300, AC008372, AC009509, AL031733, AP000045, AP000113, AC004593, AL031276, AC010205, AC005409, AC005619, AL139054, AL034423, AC005015, AC016831, AL035415, AC005081, AL031577, AC004659, AC004589, AL022400, AC004983, AB022785, AP000065, AC004925, AC005740, AC004895, AF017104, AC006063, AL009181, AC004923, AC005355, AL022326, AP000512, AC004707, AC001226, AC003663, Z98200, AC005058, AL049872, L78833, and AL096701.
HNHCL20	4836	780527	1 - 420	15 - 434	AA362218.
HNHCL38	4837	574082	1 - 211	15 - 225	
HNHCL47	4838	719476	1 - 264	15 - 278	
HNHCM80	4839	573010	1 - 279	15 - 293	
HNHCN70	4840	577186	1 - 187	15 - 201	AC009405.
HNHCO27	4841	574337	1 - 205	15 - 219	
HNHCO48	4842	860641	1 - 425	15 - 439	
HNHCO64	4843	574147	1 - 392	15 - 406	AC007559.
HNHCP18	4844	666844	1 - 196	15 - 210	AP000350.
HNHCP22	4845	934307	1 - 573	15 - 587	
HNHCP37	4846	866950	1 - 361	15 - 375	AW419246, and AW277087.
HNHCP78	4847	506696	1 - 312	15 - 326	
HNHCP88	4848	574341	1 - 228	15 - 242	
HNHCQ70	4849	757410	1 - 431	15 - 445	R69234, H70121, and AC005071.
HNHCU18	4850	574394	1 - 118	15 - 132	

HNHCU42	4851	850918	1 - 664	15 - 678	AI539360, AC003007, and AC005632.
HNHCU57	4852	735005	1 - 226	15 - 240	
HNHCV72	4853	766213	1 - 387	15 - 401	
HNITCZ07	4854	953881	1 - 321	15 - 335	R38821, and AF070579.
HNHCZ23	4855	574325	1 - 318	15 - 332	
HNHDA07	4856	855988	1 - 443	15 - 457	AI366208, AC002041, AC002038, AC006352, and AJ239321.
HNHDA79	4857	574350	1 - 140	15 - 154	
HNHDA88	4858	574150	1 - 147	15 - 161	
HNHDB11	4859	574323	1 - 488	15 - 502	
HNHDB23	4860	676290	1 - 488	15 - 502	
HNHDB46	4861	574329	1 - 488	15 - 502	
HNHDB93	4862	800661	1 - 60	15 - 74	
HNHDC26	4863	574304	1 - 341	15 - 355	
HNHDC47	4864	708705	1 - 329	15 - 343	
HNHDC83	4865	577339	1 - 421	15 - 435	
HNHDC95	4866	734794	1 - 196	15 - 210	
HNHDE38	4867	709277	1 - 334	15 - 348	R67093, AW316599, AL121287, AI313157, AA807556, AA188940, R91931, AA491440, AI453160, AI564294, AA683069, AA632765, AW081324, AI471467, AL041895, AA614595, AA564682, AA469441, AA314338, AW007424, AA366847, AW028834, AI891075, AW058223, AJ011930, AJ003147, AL022724, AL096761, AC002477, AL031592, AL049539, AC002357, AL024498, AC005599, AC005082, Z96776, AC003108, AL096766, Z84469, AL020997, AP000555, AL031311, AC002418, AC007993, Z83843, AC004386, AC005778, AL109952, AC004770, AC005015, AC002472, AC005625, AC012039, AC006293, AB003151, AP000688, AC005245, AC005777, AL034582, AP000502, AC002394, AF019413, AL049557, AL133448, AF134726, Z69721, AC000069, AC002314, AC000095, AC007326, AC005726, AL133445, AC006449, AC004031, AC006071, AC005998, AC005484, AC005005, AC005288, AC005514, Z82243, AJ239325, AC004834, AL008583, AC003982, AL121603, AC004882, AC005081, AC005529, AC004131, AB017602, AC004883, and AC000025.
HNHDF31	4868	968249	1 - 223	15 - 237	AC006560.
HNHDF48	4869	574385	1 - 200	15 - 214	
HNHDF06	4870	936046	1 - 327	15 - 341	
HNHDF60	4871	860101	1 - 314	15 - 328	
HNHDL62	4872	577701	1 - 213	15 - 227	
HNHDL90	4873	789082	1 - 466	15 - 480	
HNHDL94	4874	773592	1 - 312	15 - 326	
HNHDM03	4875	924713	1 - 389	15 - 403	

HNHDM40	4876	711352	1 - 341	15 - 355	AC007052.
HNHDM50	4877	724550	1 - 539	15 - 553	H41308, N94134, H37815, H51061, H69577, U47924, AL049872, AP000121, AF111169, AC005332, U63721, AL031681, AC005839, AP000321, AL022165, AC005280, AC005412, AC002310, AC005488, AC005736, AC004895, AC005015, AC005180, AF001549, AC006120, AC006965, AC004983, M15958, AC007151, AC004797, AC005081, Z99716, AC002470, AL133245, AP000167, AP000052, Z93241, AL023553, AC004998, AC004686, AC007312, AC006088, Z93017, AL049776, AC004815, AC004923, AP000113, AC006211, AC003109, AC003108, AC004596, AL139054, and AC002519.
HNHDM74	4878	506621	1 - 423	15 - 437	
HNHDM27	4879	573388	1 - 188	15 - 202	
HNHDM79	4880	735007	1 - 304	15 - 318	
HNHDP04	4881	859988	1 - 738	15 - 752	AL143917, E04378, D10017, AF023669, AB032964, E04379, and E04380.
HNHDP29	4882	746093	1 - 340	15 - 354	
HNHDQ11	4883	967334	1 - 482	15 - 496	
HNHDQ17	4884	573328	1 - 347	15 - 361	
HNHDQ35	4885	707334	1 - 325	15 - 339	
HNHDQ39	4886	704560	1 - 147	15 - 161	
HNHDQ56	4887	577256	1 - 494	15 - 508	R53975, AC005226, AC004690, AC004814, and AL031132.
HNHDQ65	4888	573357	1 - 337	15 - 351	
HNHDQ71	4889	496246	1 - 570	15 - 584	
HNHDQ93	4890	923817	1 - 416	15 - 430	
HNHDR10	4891	968082	1 - 367	15 - 381	AL053568, AA570255, AW069227, AW161879, T05834, AC007276, AP000355, AP000356, AL049795, U91326, AC005071, AL024507, AL035447, AC005081, U91323, AC007637, AL022476, AC004167, AC004491, AL031311, AC002563, AC005480, Z75407, AL008582, AC002425, AC004821, U91318, AC004099, AC005089, AF111168, AL024498, AC002073, AC005500, AC007192, AC002094, AP000512, U78027, AC005412, AC000379, AC005067, AC005212, AC007216, AL022165, AL021918, AL031432, AL035249, AC005736, AC007387, AC005520, AC007842, AC007421, AC007225, AL133163, AL132712, AL031587, AC002472, AC005971, AC005193, AB003151, AC004765, AC005015, AF030453, AC008018, AC005821, AL031255, AC005696, AL049589, AC005180, U75956, AC005088, AL133312, AL031680, AC006480, AC004125, AC007664, U95740, AF165926, AC008101, AC005011, U52111, AC005523, AC006449, AC004067, AC005091, AC005189, AC006023, AC005730, AC006581, AC007566, AC006487, AC004143, AL049843, AP000557, AC005094, AC005280, AC005261, AC005274, AC004033, AL050338, AF001550, AC000134, AC005839, AL121603, AF069074, AC002126, AL133243, AP000116, Z98044, AC005488, AL031683, AL031685, AF053356, AL133246, AL022316, AC005338, AC005722, AL031295, AL022318, AC006251, AC004019,

					AC004663, AC006277, AF196779, AL034549, AL008730, AL049776, AC004801, AC004859, D84394, AL049872, AL022311, AP000689, AC002369, AP000113, AP000045, AP000555, AC004882, AP000509, Z93930, AL096703, AL117694, Z95114, AC006130, AC005914, AC004991, AC007279, AC006241, AC009247, AL049539, AL022313, AC004662, AC003109, AC002350, AC005568, AC004815, AC007193, AL096773, AC002470, AC007292, Z83844, AC004983, AL139054, AC004893, AC007308, AC009464, U73479, AC012039, AL023553, AC006441, and AC010170.
HNHDR28	4892	685580	1 - 410	15 - 424	AW086034.
HNHDR71	4893	575480	1 - 451	15 - 465	
HNHDS27	4894	683585	1 - 246	15 - 260	
HNHDS83	4895	573347	1 - 200	15 - 214	
HNHDS88	4896	573349	1 - 334	15 - 348	
HNHDT01	4897	917004	1 - 369	15 - 383	
HNHDT28	4898	887158	1 - 447	15 - 461	AA311373, AA318324, AI623755, AW263181, AI979227, AA423972, AW193871, AL048971, AP000528, AP000529, and AC004527.
HNHDT42	4899	574455	1 - 245	15 - 259	
HNHDT54	4900	728871	1 - 482	15 - 496	
HNHDT83	4901	717796	1 - 428	15 - 442	
HNHDTV50	4902	506622	1 - 275	15 - 289	
HNHDTV84	4903	750262	1 - 372	15 - 386	
HNHDTW78	4904	723189	1 - 271	15 - 285	
HNHDX80	4905	779334	1 - 329	15 - 343	
HNHDX84	4906	615272	1 - 230	15 - 244	
HNHDTY18	4907	573329	1 - 367	15 - 381	
HNHDTY37	4908	582473	1 - 187	15 - 201	AI809475.
HNHDTY45	4909	576776	1 - 320	15 - 334	AA320060, AA581317, AA488419, W96277, AA554958, AA020873, AI923052, AI207534, Z84484, AC004912, AC005015, AC004813, AL009181, AC005914, AL024507, AL022312, AL023876, AL096775, AC002126, AC004408, AC005207, AL132987, AC006450, AC006576, AC004070, AL034423, AP000036, AL050306, AC002412, AP000099, AC006121, AL132796, AC008012, AC008372, AC007563, AC004034, AP000353, AC004890, AC004031, AC004656, AP000466, AP000322, AP000168, AP000053, AP000133, AP000211, Z97989, AC004910, AC007938, AL117355, AL035460, AC006277, AC002077, AC004763, AC005899, AC004585, AP000121, AC003029, AC006581, AC002511, AP000563, and AC002546.
HNHDTY50	4910	924211	1 - 163	15 - 177	
HNHDTY54	4911	945708	1 - 581	15 - 595	
HNHDTY83	4912	795954	1 - 243	15 - 257	AL031274, Z98941, AC010582, and AL121576.

HNHDZ14	4913	506738	1 - 312	15 - 326	AL033525.
HNHDZ26	4914	419716	1 - 418	15 - 432	AW024707.
HNHDZ69	4915	573346	1 - 236	15 - 250	
HNHEA06	4916	835893	1 - 340	15 - 354	
HNHEA21	4917	574868	1 - 229	15 - 243	E04378, and D10017.
HNHEA40	4918	573327	1 - 273	15 - 287	
HNHEA96	4919	796491	1 - 330	15 - 344	AA322484, AA501575, and AA339577.
HNHEB47	4920	573339	1 - 185	15 - 199	
HNHEB88	4921	412655	1 - 128	15 - 142	
HNHEC40	4922	576507	1 - 347	15 - 361	
HNHEC51	4923	577306	1 - 406	15 - 420	
HNHEC96	4924	796463	1 - 356	15 - 370	
HNHED02	4925	920414	1 - 394	15 - 408	
HNHED51	4926	682992	1 - 673	15 - 687	
HNHED82	4927	576541	1 - 410	15 - 424	Z82249.
HNHED83	4928	576540	1 - 317	15 - 331	
HNHEE25	4929	576512	1 - 371	15 - 385	AI636627, AC004916, AC007878, AL008987, AL023799, AL080317, AP000959, AF064866, AC006965, AL096707, AC006441, AL035443, AC004687, AC006948, AL021329, AL022163, AF001905, AC005053, AC006324, AC007748, AC005826, AC007182, AC002476, AC005844, AC008170, AC003983, AC006368, and AF043945.
HNHEE30	4930	576440	1 - 425	15 - 439	
HNHEE38	4931	860073	1 - 227	15 - 241	
HNHEE40	4932	576442	1 - 423	15 - 437	AF130343.
HNHEE49	4933	576820	1 - 396	15 - 410	
HNHEF01	4934	916792	1 - 336	15 - 350	AL031447.
HNHEF73	4935	576419	1 - 261	15 - 275	
HNHEG28	4936	586443	1 - 322	15 - 336	
HNHEG32	4937	576426	1 - 420	15 - 434	
HNHEG49	4938	576415	1 - 372	15 - 386	
HNHEG68	4939	861181	1 - 286	15 - 300	
HNHEG91	4940	506278	1 - 346	15 - 360	
HNHEH04	4941	582732	1 - 329	15 - 343	
HNHEH37	4942	490514	1 - 495	15 - 509	
HNHEH41	4943	578589	1 - 298	15 - 312	AA357626.
HNHEH51	4944	678114	1 - 438	15 - 452	
HNHEH52	4945	860021	1 - 398	15 - 412	N57205, AI312090, AI312784, AC004885, AC004584, AC006511, AC003982, AL021391, and

HNHEH60	4946	576517	1 - 391	15 - 405	AL031003.
HNHEI06	4947	923080	1 - 363	15 - 377	
HNHEI64	4948	576549	1 - 315	15 - 329	
HNHEJ07	4949	953586	1 - 427	15 - 441	AA115161, AL121825, and AF000547.
HNHEJ11	4950	967265	1 - 731	15 - 745	
HNHEJ23	4951	576533	1 - 364	15 - 378	
HNHEJ24	4952	916556	1 - 221	15 - 235	
HNHEJ44	4953	716723	1 - 303	15 - 317	AC006464.
HNHEJ57	4954	576535	1 - 234	15 - 248	
HNHEJ85	4955	964882	1 - 149	15 - 163	
HNHEK01	4956	916790	1 - 452	15 - 466	
HNHEK63	4957	576819	1 - 453	15 - 467	AJ009794.
HNHEK79	4958	954548	1 - 319	15 - 333	
HNHEK83	4959	576420	1 - 325	15 - 339	
HNHEL09	4960	576418	1 - 309	15 - 323	AJ223321.
HNHEL37	4961	713723	1 - 587	15 - 601	AI312582, AI054244, AA491864, AW275432, AI683131, AA715814, AW338651, AI569401, AI278972, AA533054, F30650, AI270646, AA533880, AA526625, AA526326, AI590442, AI620668, AI821805, AI880329, AA552590, AL037632, AL042230, AC005193, AC005049, AL080243, AC005519, U91318, AC004882, AC005829, AC004802, AL031597, AC004675, AF083655, AC004212, AF088219, AC007546, AC002350, AC004150, AC005484, AL035495, AC004983, AC008044, AC004024, AC005212, Y18000, AL078460, AL050307, AC005903, AC007384, AL109753, AC006480, AL021877, AC006544, AC000039, AL021808, AC006014, AC004796, AC002045, AC006241, AC002369, AL031846, AL096791, AL033527, AC005529, AC005768, AC004967, AL022326, AC004662, AL133163, AP000512, AC005046, AL031670, AF031078, AL031432, AC004678, AF111168, AC004993, AC002126, AB023049, Z85986, AC000367, AF030876, AC007226, AC004084, AC004491, Z82203, AC004448, AC007774, Z93023, AC005488, AC003962, AF011920, Z82176, U95090, AC006120, Z97053, AL136504, AC002430, AC005409, AC006538, AC006211, AC006958, AC005088, AC002091, AC007537, AC004777, AL035450, AL031311, AC008134, AF134726, AL049869, AL022165, AC005015, AP000347, AL022320, AC007676, AC005086, AC004019, AL078593, AC005702, AF190465, AL049776, AL049872, AL135960, AJ131016, AC007308, AC006079, AC006115, AC010205, AC004859, AL021391, AP000432, AD000812, AL009181, AL022328, AF207550, AC003029, AC006160, L48038, AL031803, AL117694, AC004841, AL132992, AC002565, AL021394, AF196779, AC005755, AC004913, Z97054, AC004526, AC007057, AL050308, AL050332, AP000556, AF185589, AL133371, AL023807, AC005412, AL109627, AC005235, AC005562,

HNHEL42	4962	859830	1 - 448	15 - 462	AC007192, AC003108, AC007182, AP000501, AC006084, Z68282, AC002312, AL031773, AC006511, AF053356, AC005387, L44140, AC006121, AC005358, AC004813, L78810, AC005095, AL031733, AC007151, AC007225, AC005773, AC005822, AL031685, AC006323, AL020993, AF165926, AC005480, Z81370, AC009363, AC000025, AL031282, AL022302, AC004000, AC000353, AC006344, AF001548, AP000346, AC006111, AC005377, Z98750, AL035588, AL034379, AL022721, AC006033, AC004854, U91326, AL049761, AC005229, AF159056, AC005921, AC005821, AC005922, AC005695, AC005520, AP000065, AL035458, AC000120, AP000356, Z79997, AL049839, AC005209, AC004805, AC006581, AC002314, AC004148, AC007279, AC005527, AL121653, AL034417, AC004929, AC002476, and AC007637.
HNHEL44	4963	576423	1 - 254	15 - 268	
HNHEL53	4964	506281	1 - 360	15 - 374	
HNHEL82	4965	576430	1 - 579	15 - 593	
HNHEL94	4966	786930	1 - 410	15 - 424	AA761183, AA806545, AA651905, AA811074, AA836161, AW341564, AW404901, AI393457, AW292488, AI671881, AA741473, AA281261, and AA994866.
HNHEM04	4967	950725	1 - 350	15 - 364	
HNHEM34	4968	860047	1 - 343	15 - 357	
HNHEM35	4969	576424	1 - 339	15 - 353	
HNHEM83	4970	825354	1 - 594	15 - 608	AL040165, T59913, AF109718, AC004916, and AC004987.
HNHEM85	4971	783480	1 - 332	15 - 346	
HNHEN02	4972	920420	1 - 420	15 - 434	AL031668.
HNHEN16	4973	615402	1 - 420	15 - 434	Z82975, and AC007102.
HNHEN56	4974	733521	1 - 432	15 - 446	N25067, AI741934, R93919, AA854983, AA065087, AA159978, and AF196971.
HNHEN66	4975	576544	1 - 432	15 - 446	
HNHEN76	4976	576542	1 - 437	15 - 451	
HNHEO29	4977	576548	1 - 427	15 - 441	
HNHEO43	4978	860046	1 - 690	15 - 704	
HNHEO83	4979	706683	1 - 196	15 - 210	
HNHEO84	4980	859992	1 - 420	15 - 434	T62624, AA018757, AA457771, AL043721, AI198376, AI471572, AW072923, AA482810, R83097, AL133163, AC005971, AC005288, AC006079, AL050309, U96629, AL031311, AC004814, AL022238, AC005899, AC005614, AC005011, AP000215, AC007546, AC004019, AC004150, AC005251, AC004257, AC007666, AC005602, AC005696, AC002544, U91326, AF196779, AL050332, AC004596, AP000350, AC003662, Z95331, D84394, AC005412, AC005034, AC006241, AC005531, AC004895, AL121653, Z82215, AC005703, AC012627, AC006449, AC004253, Z85987, AC007934, AC006312, AL080243, AC005823, Z85986,

						AC006379, Z83844, AC005858, AL049636, AP000555, AC007565, Z21688, AC007011, and AL050333.
HNHEP49	4981	576453	1 - 326		15 - 340	AF109076.
HNHEQ07	4982	953577	1 - 438		15 - 452	
HNHEQ46	4983	576437	1 - 297		15 - 311	
HNHEQ60	4984	576455	1 - 226		15 - 240	
HNHEQ70	4985	577188	1 - 423		15 - 437	
HNHEQ92	4986	576456	1 - 349		15 - 363	AL031290.
HNHEQ94	4987	577303	1 - 236		15 - 250	
HNHER06	4988	918651	1 - 272		15 - 286	AC004036.
HNHER21	4989	496484	1 - 517		15 - 531	
HNHES05	4990	932092	1 - 312		15 - 326	
HNHES06	4991	859833	1 - 278		15 - 292	
HNHES07	4992	953443	1 - 381		15 - 395	
HNHES11	4993	967128	1 - 383		15 - 397	
HNHES23	4994	675946	1 - 475		15 - 489	AA215634, AA825300, AA491266, AW136478, and AA282054.
HNHES35	4995	576497	1 - 387		15 - 401	AW249240, and AC006261.
HNHES56	4996	881504	1 - 381		15 - 395	
HNHES61	4997	973297	1 - 493		15 - 507	AA093346, A1261785, AA714323, AC005498, AP000457, AL049641, AC005064, AL109764, AL049710, AC000119, AL049565, AC005019, AC004454, AL050401, AL049834, U66059, AC004842, AL035695, AC004741, AF101874, AC004908, AL132777, AL133312, AL049778, Z71182, AL135879, AL121790, AC007239, AL023806, AC004948, AL031663, AC004949, Z70227, AC005873, AB020861, AL021451, AC005199, AL031114, U01882, AC007444, and AC005502.
HNHES81	4998	777979	1 - 370		15 - 384	AJ011414, AJ011415, X87904, and AB007867.
HNHET11	4999	967127	1 - 388		15 - 402	
HNHET17	5000	576746	1 - 430		15 - 444	
HNHET24	5001	860006	1 - 368		15 - 382	
HNHET25	5002	953410	1 - 373		15 - 387	
HNHET57	5003	577360	1 - 445		15 - 459	T57118, AC004966, AC007544, and AC007253.
HNHEU50	5004	724449	1 - 342		15 - 356	AA758275, H52638, A1445536, AA601208, AA354868, AW151201, AA209436, A1628200, A1628178, AA557911, T41164, T41132, A1745473, AA491361, AA311060, AW103782, AA569053, H40478, F23268, AA708305, A1859742, A1452836, H48734, M62264, A1459798, AC005231, AC005899, D87675, U85195, AC007221, AC006312, AC005049, AC005954, AC005736, AC005529, AL009181, AF134726, AL031589, AC005531, AC006120, AC007993, AL022336, AC016830, AP000255, AL033381, AL139054, AC005971, AP000135, AL024498,

				AC006530, AB017602, AC016027, AP000031, AL031387, AC004509, AL021939, AP000008, AC003962, AL080243, AP000704, AC006125, AC005206, AC006571, AC006121, AC004185, AL109628, AL049776, AC005988, AC007227, AP000117, AC002558, AC007899, AC005667, AL096775, AC005837, AF141309, AC005399, AC007676, Z99716, AF030453, AP000090, U82668, AC004882, Z83822, AC005520, AC005071, AC005829, AF006752, AL133448, AF031076, AC005932, AC005697, AL035659, AC005356, AC003101, AC004841, AC004526, AR036572, U91328, AC007057, AC008126, AC007738, AF196971, AP000044, AP000112, AL022318, AC004686, AP000503, AC004966, AC006088, AL121653, Z84721, AC020663, AL035410, AL021878, Z82184, AC007204, Z83826, AP000502, AP000213, AC007387, AC005245, AF207550, AC002310, Z95115, AC007546, AC006132, AC005914, AL031680, AC007041, AC002302, AC005519, AC005696, AL049553, AF208500, AL049759, AC004967, Z85986, AL096701, AC004552, AE000658, Z68279, AL031666, AC007688, AL022323, AP000228, AC004953, AP000509, AP000511, AL109798, AP000553, AC009516, AC005072, AC004797, AC002477, AC005940, AL096703, AL135960, AJ131016, AC003690, AF053356, AC000003, AC007773, AF124523, AF031078, AC007790, AC012627, U95740, Z97054, Z83844, AC005088, AP000050, AP000045, AC002301, AP000140, Z93017, U80017, AF030876, AC004491, AC005775, AC005902, AC007151, AL022721, M89651, AC007276, AL049709, AC006141, AP000088, AC006130, AC016025, AC005600, AC005046, AL133371, AC004655, AC002036, AC004765, AC006157, AP000049, AC004242, AC005067, AC005015, AL049757, AP000356, AL022315, Z93241, AC004941, U07562, AC005747, AC003688, AC007731, AC002504, Z98950, AC003982, AF001549, AC004019, AC004985, AC005500, AP000311, AC005763, Z98051, AJ003147, AC006539, AC006344, AL022238, AC004804, AC006511, AC004477, AC005562, AL031005, AC006388, AB012168, AC004152, AC004851, AC000353, AC003983, and AL031602.
HNHEU60	5005	576387	1 - 328	15 - 342
HNHEU71	5006	574396	1 - 278	15 - 292
HNHEV25	5007	577111	1 - 123	15 - 137
HNHEV44	5008	716661	1 - 690	15 - 704
HNHEV46	5009	577337	1 - 181	15 - 195
HNHEV49	5010	575777	1 - 303	15 - 317
HNHEW03	5011	924475	1 - 483	15 - 497
HNHEW14	5012	658506	1 - 477	15 - 491
HNHEW19	5013	953446	1 - 359	15 - 373
HNHEW21	5014	670987	1 - 243	15 - 257
HNHEW75	5015	576361	1 - 402	15 - 416
HNHEW76	5016	770081	1 - 391	15 - 405
				T79157, AL696334, H89746, AL133216, AF020782, AC004883, and Z96681.
				AL022098.
				T59662, T59795, and AF147377.

HNHEW95	5017	953566	1 - 382	15 - 396	AC005624.
HNHEX12	5018	970764	1 - 362	15 - 376	
HNHEX40	5019	711225	1 - 412	15 - 426	AI39302, AA534221, AA678404, N57939, AW007294, AI291560, AC005206, AC005667, AC004382, AC000353, AF030453, AC005088, AC004770, AC004835, AC007450, AL132777, AL035685, AL133355, AC005620, AC003012, AC022517, AC004598, AC005006, AC006449, AC003109, AL139054, AC004841, AC003684, AL022162, AL035450, AC004012, AC004985, AL035079, AC004447, AC005300, AC006126, AF196779, AL133500, AC002349, AC004228, AC002480, AL079342, AC004813, AC006101, AL049781, Z84476, AF139813, AL050341, AC004884, and AC005790.
HNHEX54	5020	575783	1 - 423	15 - 437	AL049646, Z55781, and Z54485.
HNHEX66	5021	860036	1 - 410	15 - 424	
HNHEX77	5022	860037	1 - 418	15 - 432	
HNHEY59	5023	959668	1 - 401	15 - 415	
HNHEY63	5024	575741	1 - 384	15 - 398	AL047308.
HNHEY93	5025	575745	1 - 290	15 - 304	Z82217, U95626, AC007751, AC005863, AC002288, and AC008069.
HNHEZ07	5026	953438	1 - 141	15 - 155	
HNHEZ18	5027	575788	1 - 154	15 - 168	
HNHEZ19	5028	887442	1 - 293	15 - 307	AL119623, and AB020628.
HNHFA05	5029	860033	1 - 506	15 - 520	
HNHFA11	5030	967126	1 - 397	15 - 411	
HNHFA35	5031	577302	1 - 398	15 - 412	
HNHFA59	5032	576394	1 - 400	15 - 414	AW083544.
HNHFB09	5033	575786	1 - 422	15 - 436	AI612930, AA365413, AA224238, AA531079, AA074342, AA077737, AA679532, AA582463, N25272, AL042927, AA484658, AA847702, H02485, AA779454, AW265090, AI682665, AW129526, AI061313, AC006285, AC016025, L78810, M63391, AC004000, AC018633, M87925, AL035587, AC005778, AC005060, AC005523, AC003695, AC002091, AC004973, AL133312, AL078639, AC005696, AC005089, AC004031, AC005694, AC004655, AC007270, AC004981, AC005527, AL022336, AL139054, AC007637, AC004771, AC000072, AC006241, AL132777, AC007666, AC006387, AC006380, AF010400, AC005829, AL031662, AC004231, AP000065, AC003682, AC008125, AL080317, AC003025, AL021397, AC007676, AC005363, Z97054, AL096712, AF139813, AC004257, U89337, AC004643, U67220, Y18000, AL031431, L77569, AL049776, AC004228, AC007227, AL133448, AC005901, AL035071, AC006130, Z83846, AC005592, AB016195, AC004967, AC007787, AC004983, AC007688, AC001228, AP000228, AC003029, AC003684, AC012627, Z73420, AC019014, AC004760, AP000140, AC002464, AC005529, AC005049, AC002303, AC005220, AC008171, AC007314, AC005668, AC004150, AL020995, AC005520, AC005086, AL096861, AC006441, AC002365, AC002504, AC005274,

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HNHFB19	5034	668713	1 - 274	15 - 288	AC002073.
HNHFB27	5035	576865	1 - 415	15 - 429	AC007845, AC016025, and AC016026.
HNHFB32	5036	836006	1 - 432	15 - 446	
HNHFB39	5037	575740	1 - 408	15 - 422	AI082315.
HNHFB53	5038	728265	1 - 393	15 - 407	
HNHFC34	5039	860027	1 - 376	15 - 390	
HNHFC43	5040	583660	1 - 494	15 - 508	L47334, AC004944, U95739, and AL118509.
HNHFC60	5041	576438	1 - 522	15 - 536	
HNHFC61	5042	577185	1 - 380	15 - 394	
HNHFC67	5043	576385	1 - 348	15 - 362	
HNHFC78	5044	576435	1 - 376	15 - 390	AI525653, AI525669, and AI557222.
HNHFC92	5045	577240	1 - 326	15 - 340	Y18000, AC004882, and AC005529.
HNHFD46	5046	576796	1 - 370	15 - 384	
HNHFD88	5047	506354	1 - 345	15 - 359	AC004556.
HNHFE07	5048	953585	1 - 68	15 - 82	
HNHFE40	5049	576431	1 - 404	15 - 418	AF002994.
HNHFE69	5050	577244	1 - 329	15 - 343	
HNHFF08	5051	860229	1 - 685	15 - 699	AA506952, T52745, AI280574, AA832016, AI270177, AA831801, H81732, AA358086, M78131, F23264, AI554725, AI436330, AA320105, AA602906, AI249365, AA633424, AI568659, AW439703, N99245, AA054639, AI928890, AA730035, AW020150, AW151541, AI521525, AI362694, AA635433, AI298079, AI653525, AW006088, AW088130, AA809153, AI619987, AL046416, AW304580, AL040374, AW238712, AI056537, F07564, AA553394, AA622801, AI753672, AL040816, R70884, AI345497, AA932407, AA015948, AI610439, AA525331, AA650447, AI871913, R70883, AA525293, AA365980, AA508036, AI918419, AA811954, AI251576, AW407632, AA937809, AA351808, AL118925, AI754567, AW419389, AW102811, AI754105, AI358712, AI755214, AA743968, AI096874, AI686563, AI040273, AI306232, F00688, AA838091, AA806804, AW274191, AI609972, AI990666, AL041375, R87135, AI863279, AI635440, AA282951, AI419337, AI361090, F30310, AI479068, AW189113, AA378474, AA533054, AA834764, AA057522, AA594719, AA528744, AA525522, AI207422, AI421950, AI079734, AA454504, AI079339, Z82244, AC005338, AC020663, AI117355, AF091512.

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HNHFF21	5052	625613	1 - 326	15 - 340	
HNHFF29	5053	576412	1 - 268	15 - 282	
HNHFF56	5054	576432	1 - 434	15 - 448	
HNHFG07	5055	953569	1 - 386	15 - 400	
HNHFG11	5056	967255	1 - 316	15 - 330	
HNHFG37	5057	658459	1 - 393	15 - 407	AC004382.
HNHFG94	5058	720292	1 - 389	15 - 403	

HNHFH21	5059	575785	1 - 576	15 - 590	N28488.
HNHFH56	5060	575784	1 - 243	15 - 257	
HNHFH78	5061	773610	1 - 386	15 - 400	
HNHF169	5062	575747	1 - 128	15 - 142	AC007226, U95743, AC006363, and AL022345.
HNHF188	5063	575751	1 - 343	15 - 357	
HNHF195	5064	577328	1 - 434	15 - 448	
HNHF145	5065	720757	1 - 439	15 - 453	
HNHF167	5066	699523	1 - 444	15 - 458	AA293828, and H66294.
HNHF137	5067	576386	1 - 389	15 - 403	
HNHF177	5068	970770	1 - 440	15 - 454	R43540, R48276, R48377, R43540, H14811, H14844, H25270, R98805, H48383, H61221, N29968, W23460, W73630, W73678, W95886, AA031537, AA085279, AA166981, AA195032, AA195160, AA211848, AA252180, AA291950, AA470617, AA527697, AA527705, AA523619, AA610324, AA610375, AA631087, AA639486, AA662219, AA761630, AA769549, AA836835, AA857900, AA877434, AA887793, AA911923, AA919116, A1031861, A1088765, A1097438, AA242793, AA291420, AA434487, AA670443, AA680029, AA434391, AA707307, AA719146, AA723473, AA725011, AA780009, AA854072, AA854177, AA904890, AA927579, A1026017, A1026142, A1027032, A1039424, A1082533, A1092443, A1095580, D45614, A1306736, A1311850, A1344587, A1346859, A1401696, A1475602, A1491923, A1560607, A1561040, A1565775, A1497986, A1567445, A1582162, A1424489, A1127220, A1129847, A1131403, A1216030, A1218681, A1221771, A1240379, A1659547, A1538610, A1539637, A1275475, A1332813, A1349444, A1350915, A1589172, A1682495, A1684064, A1689701, A1763230, A1829821, A1831189, A1831933, A1870019, A1870152, A1888031, A1811628, A1914567, A1918439, A1921759, A1937559, A1952650, A1952779, AW004929, AW005538, and AW024659.
HNHFL48	5069	664588	1 - 294	15 - 308	AJ007751, AC010517, AJ007752, D29748, AJ130757, S67971, and AJ130755.
HNHFL82	5070	576428	1 - 386	15 - 400	AL021528.
HNHFM01	5071	916787	1 - 290	15 - 304	AL096757.
HNHFM32	5072	577331	1 - 346	15 - 360	
HNHFN30	5073	691083	1 - 398	15 - 412	
HNHFN52	5074	727258	1 - 216	15 - 230	
HNHFN95	5075	761672	1 - 316	15 - 330	
HNHFO45	5076	576408	1 - 351	15 - 365	
HNHFO48	5077	707311	1 - 624	15 - 638	H05570, and AC005146.
HNHFP09	5078	860013	1 - 299	15 - 313	AL031590.
HNHFP10	5079	964849	1 - 440	15 - 454	
HNHFQ01	5080	916773	1 - 338	15 - 352	
HNHFQ19	5081	418108	1 - 149	15 - 163	

HNHFQ30	5082	692807	1 - 272	15 - 286	
HNHFQ75	5083	766595	1 - 343	15 - 357	
HNHFQ88	5084	576398	1 - 436	15 - 450	AI420786, and AC005592.
HNHFQ92	5085	576400	1 - 139	15 - 153	
HNHFR12	5086	860003	1 - 303	15 - 317	
HNHFR22	5087	964716	1 - 430	15 - 444	AA640685, AA804925, AI289850, F29541, AA601195, AI471691, AA728937, AL133448, AC005722, AC004895, AC005529, AC005488, AF165926, AF109907, Z83822, AC005015, AC004882, AF207550, AC006285, AF053356, AC006071, AP000689, AI003151, AC002994, AC007688, AC006953, AL109798, AC005412, AC009247, AC006946, AL031311, AL096791, AC005837, Z95331, AC007263, AC004967, AC005089, AL031666, Z93017, AL135783, AC006449, AC006277, AL022328, AP000049, AP000116, Z95116, AC000353, AP000311, AC006538, Z83844, AC007216, AL035684, AC002369, AC006120, AC004905, AC006023, AF064861, AC002302, AC003043, AL078638, AL008718, AP000557, AD000091, AC005280, AC007546, AL021707, AL133246, AL035072, AC005206, AL049779, AP000036, AC005081, AC004150, AC000134, AC004383, AC005520, AP000343, AC007285, AL023575, AL135960, AJ131016, Z98946, AC005667, AC004453, AC007151, AL035423, Z86090, AC004682, J02698, U73636, AL132777, AC005231, AC002996, AL021397, AP000352, AC005736, AL096701, AL022476, AC005180, AC005778, AP000031, AL009181, U82668, AC004228, AC005952, AC004859, Z84474, AC006430, AC004821, AC003950, AL031595, AC004985, U47924, U95742, Z98036, AC003670, AL031005, and AL049569.
HNHFR24	5088	577330	1 - 322	15 - 336	
HNHFR67	5089	751787	1 - 338	15 - 352	
HNHFS03	5090	924610	1 - 511	15 - 525	
HNHFS79	5091	734798	1 - 416	15 - 430	AC005747.
HNHFU09	5092	625726	1 - 433	15 - 447	AC002069.
HNHFU35	5093	707335	1 - 298	15 - 312	
HNHFU45	5094	920844	1 - 432	15 - 446	AL109758.
HNHFU57	5095	860002	1 - 435	15 - 449	AW304536, AI356440, AA102737, H29914, AA715173, AA715075, AA904211, R93919, AA314891, AW008169, AI433104, AA302661, AA541532, AI281561, AA338238, AI133514, AA568204, AA570740, AA483606, AI571538, AI249683, AL138329, AA338237, H68360, AI491765, AI189682, AA630854, AA206230, AA664604, AI355246, AW023111, AI336771, AW084967, AA493947, AL041375, H38769, AA491767, AA515939, AA714110, AA846923, H84412, AA626829, AI792529, AI054193, T90477, AA632765, AI609972, AA161492, AA857812, AA279919, AA493808, AI538236, AA297208, AC005412, AC006409, AL035461, AJ012008, AC005088, Z83844, Z95115, AC002351, U91321, AC005696, AC005529, AL049710, AC004084, AC004796, AF172277, AL133312, AC003070, AC006205, AL049569, AL031432,

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HNHFV16	5096	952376	1 - 360	15 - 374	AL022319.
HNHFV52	5097	576390	1 - 387	15 - 401	
HNHFV56	5098	724417	1 - 514	15 - 528	
HNHFV66	5099	860000	1 - 350	15 - 364	
HNHFV68	5100	925820	1 - 334	15 - 348	
HNHFV70	5101	757281	1 - 317	15 - 331	AA045668, T51787, and AI752482.
HNHFV08	5102	959476	1 - 406	15 - 420	AA045947, AA367403, AC003976, AC005702, AC005562, and AC003958. AA075754, AA618286, AA295899, AA295893, AA774098, AA354695, AI859744, AA483141, AW327555, AA633892, AA340226, AA569448, AA834799, AF034176, AA376358, AI732911, AA177130, AA225634, AA825954, AA452325, AA730795, AA496268, T06805, F16409,

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HNHFV29	5103	663912	1 - 410	15 - 424	
HNHFV22	5104	674638	1 - 189	15 - 203	
HNHFV35	5105	668656	1 - 344	15 - 358	AC005519.
HNHFV56	5106	716628	1 - 402	15 - 416	
HNHFV68	5107	753045	1 - 96	15 - 110	AC004468.
HNHFV70	5108	756459	1 - 381	15 - 395	Z54072.
HNHFV89	5109	712347	1 - 413	15 - 427	

HNHFY21	5110	670946	1 - 408	15 - 422	
HNHFY95	5111	734764	1 - 363	15 - 377	
HNHGA24	5112	967093	1 - 433	15 - 447	
HNHGA33	5113	702461	1 - 189	15 - 203	AF095901, AC005971, and AC003006.
HNHGA46	5114	719073	1 - 359	15 - 373	AA579437, R98945, A1168274, A1092694, T68597, AW161893, AW438907, AA618172, AI085078, AA632695, H27102, AC007676, U91326, Z49154, AC005516, AP000066, Z98941, AL031685, AC004056, AC006449, AL031680, AC005921, Z84484, AC007559, M63796, AC002400, AL022476, AC002302, AF024533, AC006965, AC005940, AC005479, AL121655, AL035495, AP000349, AC005102, AL050307, AC003962, L44140, AC005156, AL139054, AC003689, AF001549, AC006544, AC005332, AC002565, AC006581, AL035086, AC005785, AC006076, AL031681, AL049709, AC006572, AC007637, AC005523, AC004584, AL009031, and AR017567.
HNHGB83	5115	781205	1 - 325	15 - 339	AA604326, AA483223, AA513850, AA486580, AA533036, AA548511, F25695, AA824655, AA127636, AA641199, AA568778, AL044438, AA601355, AA670468, AA481050, AA397572, AA486885, AA824654, AA368679, AA678443, M77868, AA081909, AA488249, N20967, AA346575, AA623002, AA577906, AA973803, AA446657, N22533, AA347114, AA906889, AA649722, AA720691, H86097, AA669840, AA858197, AA357552, AA503473, AA928904, T53128, AA341336, AA643469, AA490183, W96048, AA078691, AA653964, AA805860, T28708, AA740921, AA458736, AA702745, AA678436, AA059472, AI002796, AA678772, AA644538, AA810370, F35659, AA158301, AA788883, AA604854, AA134347, F09736, AA204718, R32415, AA319830, AA610420, AA602528, AA304977, R84296, AA838096, N20219, AA704643, AA325597, AA480790, AA235466, AA158328, AA330380, AA525151, T94817, AA825299, AA833792, AA053551, AA834755, AA678499, AA633094, AA552843, H96850, T16056, AA484153, AA664135, T55236, AA132914, AA702293, AA437161, AA630606, AA604107, AA629571, AA280632, AL134267, R97934, R84309, AA812433, AA630925, D57369, R65889, AA524809, AA526757, R92288, AA715263, R84303, H02877, W16581, AA603156, AA459873, AI648558, AA826793, AA347170, H11124, AA287640, AA608595, AA994578, AA639248, AA584749, H02135, N69316, T49241, AA434388, H79151, I180306, AL037050, AW069807, AA483780, AA143490, T67750, AA053635, AA172191, AA774184, AA190895, AA632548, T15897, AA515909, AA605032, AA167643, AW390062, AA494025, AA908857, AA524838, AA654761, AA846929, A1890096, AA405493, AA557854, AI275328, AA569167, AI251250, AI284881, AA521355, AA574110, AC006512, AF003529, AC002384, AF029308, AC004690, Z95124, Z95331, AF227510, AL031965, AC003973, AL049837, AC006560, AC006548, AF130343, AC006511, AL136520, AC004075, AC003003, AL121823, AL031054, Z97206, AC004968, AC005191, AC005181, AC007372, Z68870, AP000507, AC007161, AC012083, AP000086, AC005690, AC008069, AC004006, Z83841, AC004614, AC005036, AB020868, AL133233, AL049562, AL109654, AC009286, AF070718, AP000166, AL121871,

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HNHGB96	5116	784362	1 - 406	15 - 420	
HNHGC13	5117	927065	1 - 344	15 - 358	
HNHGC35	5118	707337	1 - 310	15 - 324	AI804902, AC006117, AC007421, and AF051976.
HNHGC41	5119	711654	1 - 259	15 - 273	
HNHGC62	5120	733745	1 - 641	15 - 655	H40460, T87587, T99479, T79930, T98889, R45850, and H40461.
HNHGD07	5121	953416	1 - 412	15 - 426	AI798767, AI762354, AA960878, AA994187, AI150216, AI203673, AW304455, AI669778, AI638227, AI629021, AI032379, AW206145, AI216900, AI652606, AI949596, AI200754, AI652758, AA365065, AA400904, AA775880, AA935607, AA628104, AA913740, AA682231, AA442250, and AA970252.
HNHGD14	5122	920149	1 - 425	15 - 439	
HNHGD50	5123	667930	1 - 341	15 - 355	F31867, AI250552, AI251034, AI254770, AI284543, AI054090, AI251284, AI251203, AI223626, AI246061, AI090334, AI251241, AW303098, AA502098, AI312533, AL135605, AW339422, AI798041, AW249541, AA491814, T99717, AA356310, T55707, AA746959, AA492114, AI249886, AA747480, AI358008, AC004778, AC007201, AL096791, Z93930, Z98200, AL009181, Z82208, AC005778, AL031848, AL109798, AL078476, AC006130, AC005841, AC007546, AL035681, AL049766, AL034379, AC005387, AC005776, AC007100, AC005837,

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HNHGD51	5124	934632	1 - 392	15 - 406	AC005043, and AL035417.
HNHGD68	5125	753053	1 - 393	15 - 407	
HNHGD84	5126	671077	1 - 414	15 - 428	AC005242.
HNHGE09	5127	939727	1 - 633	15 - 647	T03269, D58283, D80193, D59927, D80166, D80195, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D80043, D80227, D59859, D80212, D80196, D80188, D80219, D80038, D80269, C14429, D59889, D81030, D80366, D59502, D57483, D80022, D59275, D80045, D59610, AW178893, D80378, D50979, D50995, D80034, D59787, D80241, D51097, C14014, C75259, D80164, C14331, D80134, A1905856, D59467, AW177440, C14389, C15076, AW179328, AW178775, AA305409, AW378532, D51060, AW352158, AW177501, AW177511, AW352117, D80949, D80168, AW178762, D58253, D51079, D51022, AW176467, AW375405, AW360811, AA305578, AW377671, AW366296, D80251, AW360844, AW360817, AW360834, D81026, AW375406, AW378534, D80248, AW179332, AW377672, AW179023, AW178905,

HNHGE27	5128	683432	1 - 359	15 - 373	AA514188, AW179220, AW352172, AW352171, D80522, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW178906, AW177505, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, D80132, AW179004, D80268, AW178914, AW178911, D80302, AW178774, D80439, D80247, T48593, AW367967, AW178983, AW177723, AW352174, AA033512, D51103, AW378533, D80157, AW367950, AW178986, D80314, A1535850, C06015, D45260, C14975, A1525913, A1525923, A62298, A62300, A132110, A84916, A67220, D89785, A78862, X67155, A25909, AR025207, D34614, D26022, D88547, Y17188, X82626, AR018138, AB012117, A85396, AR066482, Y12724, A44171, A85477, I19525, A86792, AF058696, X93549, AR008278, AB028859, AF135125, U87250, A94995, AR008443, I50126, I50132, I50128, I50133, D88507, AR066488, AR064240, A82595, AR016514, D50010, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB033111, AB002449, AR066487, A43192, A43190, AR038669, A30438, AR066490, D13509, AR060133, Y17187, AR008408, A63261, U87247, A70867, Z32749, AB023656, AR062872, U79457, AR016691, AR016690, U46128, X93535, and AR008382.
HNHGE43	5129	715304	1 - 315	15 - 329	AA488743, AA308092, AA676628, AL031311, AP000347, AP000346, AC005210, AC005839, AL031681, AC007227, AC005105, AC004139, AC007559, AL109799, U85195, AE000658, AL022302, Z95116, AL031671, AL034402, AC004010, AC005225, AC005519, AL031680, AL109963, AL021069, AC004920, AC003024, Z96811, and AC002544.
HNHGE64	5130	746605	1 - 303	15 - 317	
HNHGF14	5131	835984	1 - 419	15 - 433	
HNHGF21	5132	670956	1 - 399	15 - 413	AC002470, AL135745, AC002565, AC005015, AC005300, and AC002117.
HNHGF37	5133	708708	1 - 520	15 - 534	AL022097.
HNHGF45	5134	859852	1 - 372	15 - 386	
HNHGF46	5135	705128	1 - 411	15 - 425	W40172, AA129812, AA382562, AA057128, N44954, W93959, W96112, W65434, AA321463, R91613, AA010986, AA311729, AA456863, AA355485, AA047510, AA133759, T77131, T97680, W44481, Z60594, and AF191020.
HNHGF85	5136	761811	1 - 356	15 - 370	AA745297, A1707744, AW169038, A1570805, AL037777, AA528574, AA528503, R08192, AW304536, AW338042, H01243, A1538236, R99533, H60827, AA630122, W03330, AA434364, AC005089, AL049591, AL021391, AC005881, AC004129, AP000555, U52112, Z93241, AL021707, AF064861, AL024498, AC006080, AC003025, AF139813, AC005666, AC006277, AC005048, AF165926, AC003101, AC007371, AC005952, AL031668, AC005389, AL031276, AC005376, AC005826, AC006379, AC006948, AC005932, AP000243, AP000126, AP000204, AF047825, AC006241, AC005071, AC005736, AC005546, AF051769, AC007073, AC006023, AL035423, AL031602, AC003982, AL133312, AL049569, L44140, AC007934, AF024534, AP000279, AL031672, U95626, AL078584, AL022320, AC005624, AP000106, AP000038.

AL008718, Z83826, AL035071, AC004996, Z83844, AC004595, AC004832, AC004017, AC004814, AC005225, AC005971, AC005786, Y16789, AP006689, AC002115, AL096817, AC005049, AC004084, AC009721, AC007327, AF196969, AC005519, AC004859, AP000557, M55987, AC007283, AC000353, AL022326, Z93023, AC005562, AC006275, AC003002, AB023049, AL031427, AC009516, AC004841, AP000045, AL035659, AL132712, AL034419, AL022237, X95887, AC005280, Z92845, AC007421, AC002288, AC002072, AC005482, AL031295, AC007792, AP000512, Z82248, AL109758, AC005572, AP000313, AC006029, AP000501, AP000556, AC004782, AC005399, AL035420, U91318, Z98044, AL133448, AC005841, Z97630, AL049760, Y14768, AC004849, AL009172, AL035405, AC005274, AL035587, Z93022, Z98304, AP000050, AC005255, AC006163, AC006141, AP000505, U95740, AL031281, AC004890, and AL035588.					
HNHGF90	5137	730957	1 - 392	15 - 406	
HNHGF91	5138	750389	1 - 418	15 - 432	
HNHGG06	5139	935530	1 - 392	15 - 406	R02639, and R02523.
HNHGG73	5140	764446	1 - 253	15 - 267	
HNHGG76	5141	746607	1 - 246	15 - 260	<p> AL648558, AW236342, A1824562, AA747472, A1697208, AL041706, H55914, AA515435, AA484187, AA649642, AA318652, AA515224, AW440976, A1358571, A1205126, AA483034, H55891, AA077817, A1281697, A1379719, AA017322, AA548137, AA441788, A1064729, F23279, A1216799, A1357551, A1354426, A1251002, W07122, A1291124, AA317170, A1053672, AW079241, AL039958, A1921296, AA514819, A1291268, F37169, AW265393, A1284640, A1537030, AA557686, A1473943, AW303876, AA663482, A1281881, F33121, AW274349, AA084070, AA632650, F36273, A1334443, A1471481, AA745410, A1937850, T63104, AA491762, AA470985, AA483234, A1564185, AW029526, A1133164, A1929531, A1364809, AA503258, AW303196, AW301350, AW338086, F18320, A1251021, AA664148, AW088058, A1252554, AL041733, A1749284, AW162049, AA325699, T06556, AA745582, AA350859, A1379594, A1091495, A1287651, AL079812, AW166815, AW028403, A1821279, A1446464, AW148792, AL079843, AW406162, AA664535, A1434695, AW419262, AA595782, AA825357, R91094, A1351698, A1499938, T08638, AW440299, AA365302, A1219406, T03772, AA533036, N75702, A1358813, A1567674, AA605274, AA252763, AF150152, A1572788, A1570212, AW249835, AW020992, A1312149, A1439210, AA613345, AA713815, T40077, A1434311, AW270270, AW406447, A1110770, AA470534, AW168342, AA177061, A1467919, AW104813, A1888518, AA657741, AA161095, A1890923, AW162489, AA680211, A1281903, AA679872, A1148277, A1279165, A1628288, AA521277, AL038474, AW079792, AW022379, AA652057, A1539563, A1439360, A1962050, AA347927, Z99716, AL049830, AC005323, AL031388, AC005696, AC007363, AC012627, Z98884, AC007036, AC004805, AC000004, Z98948, AP000054, AL110502, AC000066, AC004067, AL034545, AF064857, AP000548, AF044083, AL035411, AC005541, AC005844, AC003668, AC006501, AC006543, A131681, AC005082, AL032543. </p>

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HNHGG89	5142	772213	1 - 343	15 - 357	
HNHGG93	5143	792335	1 - 565	15 - 579	
HNHGG95	5144	760386	1 - 399	15 - 413	AC004894.
HNHGH02	5145	920147	1 - 520	15 - 534	
HNHGH20	5146	959499	1 - 391	15 - 405	
HNHGH42	5147	713036	1 - 418	15 - 432	<p> AA488395, AI580652, AW269488, H88666, AA491814, AA177061, AI499938, AI184226, AI376100, AI921649, AA581903, AW406659, AI589230, AW088202, AA448231, AA452563, AW238278, AW103758, AW261871, AW406162, AL119691, AI887483, AA503258, AA469451, AI859251, F29989, AW276827, AL046409, AI471543, F17555, AI889923, AI053790, AI567674, AI499181, AA503284, AI679045, AA493708, AL138265, AI345518, AA654979, AI471481, </p>

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HNHG135	5148	707336	1 - 422	15 - 436	
HNHG179	5149	775218	1 - 307	15 - 321	
HNHG181	5150	576279	1 - 418	15 - 432	
HNHGJ03	5151	968076	1 - 309	15 - 323	
HNHGJ09	5152	625624	1 - 394	15 - 408	AA847508, AI040051, AI499954, AW337526, AA654874, F24728, AA541532, AA378489, AW407632, AA745628, R99076, AI653783, AI421755, AI915081, AW002831, AL045476, AI345123, F24745, AA059247, H86546, H85032, AA613624, AA017169, H91062, AI358557, N90460, AA804187, AI431513, AA640563, AA847427, AA862075, AI733523, AA747375, T51436, AI380617, AI032411, AI801479, AA626632, AI440037, R99144, Z93017, AF196779, AC005363, U02068, AC004841, AL023807, Z97183, AC006057, AL035681, D86995, AC004943, AC004796, AL008715, AC005102, Z82244, AF053356, AP000555, AP000512, AL049569, AL022476, AL009181, AP000115, AC005899, AC003108, AL031587, AC005393, AC004148, AC002551, AL022721, AL109952, AC006486, AF003626, AF134726, U95742, AC008372, AC005666, AC007537, Y18000, U02057, AC007216, AF207550, AC004000, T78810, AC005409, AC004531, AF196970, AC005071, U91323, AL035659, AC002472, AC004832, AC006312, AC005535, AC004590, AL050337, AL022328, Z98044, M84472, AC007363, AC007055, M89651, AF111168, AC005971, AF205588, AP000358, AC006505, AC006468, AL139054, AC000039, AL031228, AC008044, U37355, U37357, AL008718, AL034394, AL117694, AF075098, AC003110, AP001065, AP000359, AL031255, AC005746, Z97053, AC005081, AP000076, AC005412, AC003043, AC002430, Z85987, AP001053, AC004552, AL022315, AC005920, AC005996, AL109827, U34879, AC007637, AF047825, U96629, AC005529, AC007384, AF176815, U80460, AL049780, AC005377, AL031432, AB001523, AP000289, M30688, AC005225, AL034418, AC005911, AC006011, AC006597, AC004491, AC006254, AC007934,

						AC004752, AC004985, Z69705, AC001228, AL033527, AC004486, AC007676, AC005280, AL030995, AF001550, AP000692, AL096791, AL022323, AC007226, AC004686, AL023553, AP000348, AC005725, AP000042, AP000110, AC004876, AC007376, AC002039, AC005695, Z98742, AC002416, AL080243, Z98304, AC000075, AC004754, AL034402, AC007225, AC005011, Z68276, AC002400, AC004400, AL049795, AC004975, AL109623, U47924, AB012113, AJ003147, AC004448, AC004254, AL133245, Z96074, AL049872, M37468, AL024498, AP000257, AC005399, AP000088, AC004159, AC002365, AC005871, AC004263, Z83822, AC002316, AC002990, AL031659, AC009330, AC005015, AC005229, AL022311, AC007435, AP000353, AF001552, Z83844, M84371, AC005913, AC005752, AL031230, AC005874, AF134471, Z83843, AC005378, AC004659, AL021155, AC000025, AL132712, AL035697, AC007421, AL031657, AC008009, X54486, AP000350, AC003002, AC004828, AC019014, and AL034429.
					15 - 398	AL022341.
HNHGJ20	5153	668916	1 - 384	15 - 323		AA724689, AL699833, AA433894, AA314522, D25249, F29184, AA296881, AA326270, AL791913, AL792133, AL821714, AL611569, AL611598, AA663201, AL1340641, AA501649, AL668679, AL734264, AA039512, AA063546, AA515728, T86545, AW407371, AL1335995, AL821785, AA838190, AW304580, AA547947, AW029515, AA933776, AA039511, R44623, AL1354388, AL700000, R57956, AL133566, AL420028, AA595499, AA169247, AA527838, AC006126, AC005081, AP000555, Z84469, AC005261, AC006538, AP000102, AC002316, AC004799, AC005409, AC005736, AL031584, AC006511, AC004812, AF045555, AC007227, AL096701, AC003101, AL133245, AC007364, AB023049, AC004386, Z85986, AC000353, AF109907, U91326, AC005004, AC004491, AC007011, AF196779, AC010205, Z95152, AC005071, AP000512, AC016026, AC005046, AC004876, AC004813, AL109939, Z84483, AL022312, U07563, AC004381, AC002369, AL022315, AC007842, AC004966, AC007536, AC005620, AC006084, AC006011, AC002037, AL049830, AC004253, AC005829, AL022165, AL008721, AC004150, AL133485, AC003007, AC002470, AC002425, AL031311, AL121655, AL008633, AC005037, AP000104, AL023807, AL008726, AC007707, AL021707, AL031594, AC002059, AC005800, AC005899, Z83840, AC004890, AL136295, Z95115, AC006960, AC005488, AP000558, AC005280, AL009179, AF053356, AC004031, AC004526, Z74739, AJ003147, AC006088, AB004907, AC005057, AL135744, AC003037, AL049839, AC004953, AC016025, AL049643, AC006449, AL008723, AP000353, AC005102, AC006071, AL022313, AC002347, Z93930, AC002544, AP000251, AC004030, AF165926, AC004765, AC006480, AC005786, AP000030, AP000211, AP000133, AL021579, AF047825, AC007225, AL133353, AP000690, AC005523, AC005598, AC005722, AC002073, Z98051, AF064861, Z84718, AC002301, AC005231, AC002400, AL122020, U47924, AC006210, AC004854, AL008582, AL049795, Z82215, AL049757, AC004858, AC004382, AC004531, AC009516, AC007057, AL117328, AC006468, AF196970, L44140, Z97989, U85195, AC004019, AC007731, AC004821,
HNHGJ28	5154	686733	1 - 309			

					AC002404, Y18000, AL035450, AC007381, AL031432, AC004476, AC004560, AC005500, AC005696, AC006529, AC002418, AL109984, AC005088, AC005015, AE000658, AC005914, AC006486, AL122023, AC002430, AC005516, AL139054, AC004033, AC005632, AC005911, AL031255, AC007384, Z97054, AC000025, AC005018, AC006547, AC004583, AC007226, AC006312, AC004770, AL034420, AC004263, AL031577, U93305, Z98950, AL049712, M63796, AC005412, AP000356, AL137100, AC008498, AP000692, U95740, U89336, AL079342, AC003695, AC004983, AC005740, AC008045, AC002468, AL132800, AL008732, AC004882, and Z98752.
HNHGX39	5155	850088	1 - 456	15 - 470	
HNHGX65	5156	750269	1 - 405	15 - 419	
HNHGX81	5157	777958	1 - 616	15 - 630	
HNHGX05	5158	935525	1 - 308	15 - 322	
HNHGX24	5159	783674	1 - 426	15 - 440	AF064862, and AF064865.
HNHGX70	5160	728593	1 - 409	15 - 423	AA633727, AL042361, AA429543, R54767, A1880143, W03215, AA317624, AA703958, AA703747, R96964, H80600, AA491063, AA601475, AA603184, AA412382, T66045, AA491139, AI214163, AA083243, A1880175, AA211922, AA393354, AW264118, AA077800, H29782, AC004987, AC004916, AL133216, AC006328, and AF109718.
HNHGX17	5161	663923	1 - 321	15 - 335	
HNHGX21	5162	670955	1 - 276	15 - 290	
HNHGX65	5163	750267	1 - 119	15 - 133	
HNHGX68	5164	732370	1 - 363	15 - 377	
HNHGX08	5165	859964	1 - 106	15 - 120	
HNHGX31	5166	698047	1 - 528	15 - 542	
HNHGX32	5167	699292	1 - 434	15 - 448	
HNHGX40	5168	916551	1 - 428	15 - 442	
HNHGX73	5169	934446	1 - 865	15 - 879	F24281, AC005180, AC004178, AL035542, AL035086, Z95114, AP000305, AC005324, AP000047, AP000115, AL030996, and AL109865.
HNHGX83	5170	780328	1 - 546	15 - 560	
HNHGX02	5171	920146	1 - 433	15 - 447	
HNHGX25	5172	678151	1 - 434	15 - 448	
HNHGX28	5173	859965	1 - 433	15 - 447	
HNHGX49	5174	573340	1 - 459	15 - 473	AC005191.
HNHGX79	5175	562748	1 - 1013	15 - 1027	A1362442, AW131356, AA533545, AW023111, AA714110, AI251429, AA947369, AI921296, AI338117, AI926706, AA610233, AL109827, AC005189, Z85987, AL049636, AP000096, AL133245, AC005082, AC004013, AC005071, AC005324, AC005484, Z84480, AL023575, AC004797, AP000240, AJ010770, AC005102, L44140, AL031667, AC004149, AC004647,

					Z83838, AC002472, AC007566, AC003664, AF064861, AF196779, AC005225, Z99716, AC004087, Z84476, AC004655, AC005939, AC004791, AL121653, AC005736, AC002350, AL035405, AC005488, AC005089, AL078581, AC005057, AL008631, U95742, AC005512, AP000557, AC006965, AC006511, Z98048, AC007216, AC005031, AC004477, AC005231, AC009248, AC007666, AL049766, AL136295, AC005295, AC002558, AC005291, AP000502, AC003678, AC004526, AC004019, AL096761, AC007686, AF003626, AL022316, Z82214, AL023553, AC006960, AL035398, AC005920, AC002041, AC005520, AC005412, AC005971, AC003101, AL139054, AL024498, AC004000, AC000004, AF134726, AC005778, AF001549, Z98304, AL022334, AC007565, AL031730, AC004656, AC003690, AC005529, X55448, AC006974, AC000052, U80017, AC002991, AC006064, AC006077, AC004686, AC009516, AC005015, AL031005, AC006597, AC004805, AL109754, AL033527, AC005722, AL035458, AC002477, and AC002400.
HNHGR35	5176	698501	1 - 374	15 - 388	
HNHGR43	5177	918711	1 - 330	15 - 344	
HNHGS34	5178	706671	1 - 422	15 - 436	Z68885, and AL117391.
HNHGT37	5179	708706	1 - 276	15 - 290	
HNHGT51	5180	859962	1 - 354	15 - 368	
HNHGT64	5181	725710	1 - 346	15 - 360	
HNHGT74	5182	765602	1 - 433	15 - 447	
HNHGU19	5183	668693	1 - 407	15 - 421	AA985391, AW007854, A1821306, AA749351, A1159836, AW189113, AC005726, Z86090, AC005088, AF001549, AC007240, AC005562, AF030453, AC002425, AL033527, AL080243, AC005089, AP000066, Z85987, AL022165, AC004882, AC008044, AC004953, AP000347, AC008124, AC005969, AC003950, AC008040, AP000249, AP000210, AP000132, AD000684, U91322, AL022336, AC007425, AL035072, AC002302, Z75407, AL110502, AC005102, AJ251973, Z93023, AL049576, AC006111, AC007192, AC004876, AF067844, AL031295, AL008726, AC004585, AL021528, AC003071, AC009731, Z78730, AC002352, AC005399, AL022238, AC005231, AC010170, AP000501, AC002554, AC007263, and Z93017.
HNHGU41	5184	791822	1 - 487	15 - 501	
HNHGU44	5185	716634	1 - 443	15 - 457	
HNHGU84	5186	783041	1 - 44	15 - 58	
HNHGU89	5187	761837	1 - 434	15 - 448	
HNHGV18	5188	666473	1 - 391	15 - 405	
HNHGV22	5189	674653	1 - 345	15 - 359	
HNHGV29	5190	421819	1 - 310	15 - 324	AL020994.
HNHGV45	5191	754053	1 - 414	15 - 428	
HNHGV91	5192	706695	1 - 388	15 - 402	AL022068.

HNHGX33	5193	496224	1 - 315	15 - 329	AP000271, AP000104, and AF042089.
HNHGX40	5194	687120	1 - 344	15 - 358	
HNHGX41	5195	711657	1 - 650	15 - 664	
HNHGX52	5196	727175	1 - 425	15 - 439	
HNHGX55	5197	683523	1 - 296	15 - 310	
HNHGX83	5198	781196	1 - 550	15 - 564	AC006079.
HNHGY13	5199	657253	1 - 397	15 - 411	AL031732.
HNHGY17	5200	663921	1 - 405	15 - 419	
HNHGY18	5201	859951	1 - 409	15 - 423	
HNHGY19	5202	835531	1 - 422	15 - 436	
HNHGY26	5203	859949	1 - 438	15 - 452	
HNHGY29	5204	690666	1 - 429	15 - 443	L34981, Z68275, AL117391, and L33995.
HNHGY42	5205	713797	1 - 409	15 - 423	
HNHGY47	5206	720360	1 - 400	15 - 414	T02826.
HNHGY79	5207	775209	1 - 405	15 - 419	
HNHGY86	5208	785516	1 - 238	15 - 252	
HNHGY91	5209	840129	1 - 419	15 - 433	
HNHGX36	5210	708131	1 - 71	15 - 85	
HNHGX63	5211	742594	1 - 522	15 - 536	
HNHHA21	5212	496227	1 - 374	15 - 388	
HNHHA32	5213	669915	1 - 328	15 - 342	AC004819.
HNHHA37	5214	708709	1 - 188	15 - 202	
HNHHA68	5215	753047	1 - 613	15 - 627	
HNHHA91	5216	790198	1 - 271	15 - 285	
HNHHA11	5217	964993	1 - 147	15 - 161	
HNHHA12	5218	970719	1 - 363	15 - 377	AL136297.
HNHHA24	5219	677224	1 - 351	15 - 365	AW088875, AW090733, AW089149, AI241940, AI364268, R41807, H06383, AW016452, AA598689, AI863108, AA599060, AI091148, AI693507, AI424991, and Z38240.
HNHHA64	5220	702697	1 - 766	15 - 780	N90568, AI554312, AP000365, and AP000548.
HNHHA12	5221	967088	1 - 290	15 - 304	
HNHHA17	5222	860117	1 - 318	15 - 332	
HNHHA29	5223	713800	1 - 359	15 - 373	AA663387, and AA679164.
HNHHA33	5224	699291	1 - 172	15 - 186	AL080239.
HNHHA36	5225	707340	1 - 218	15 - 232	
HNHHA46	5226	719068	1 - 240	15 - 254	
HNHHA58	5227	736069	1 - 227	15 - 241	

HNHHC83	5228	781197	1 - 425	15 - 439	
HNHHD35	5229	707338	1 - 423	15 - 437	
HNHHD61	5230	741837	1 - 405	15 - 419	
HNHHD67	5231	751663	1 - 305	15 - 319	
HNHHD82	5232	779893	1 - 419	15 - 433	
HNHHE07	5233	953408	1 - 364	15 - 378	
HNHHE48	5234	630223	1 - 307	15 - 321	
HNHHE63	5235	745100	1 - 281	15 - 295	
HNHHE80	5236	774041	1 - 301	15 - 315	AL079342.
HNHHF01	5237	916546	1 - 306	15 - 320	
HNHHF33	5238	698502	1 - 249	15 - 263	
HNHHF51	5239	698490	1 - 384	15 - 398	
HNHHF56	5240	496204	1 - 349	15 - 363	AC006427.
HNHHF58	5241	859946	1 - 419	15 - 433	
HNHHF63	5242	745095	1 - 361	15 - 375	
HNHHF79	5243	775205	1 - 421	15 - 435	AI287766, AI124798, AA535216, AA715173, AA715075, AA829056, H50970, AI783911, AI560085, AI583532, AI754286, AA350886, AA598731, AW438850, AW438662, AW302048, AA568314, AA828844, Z97054, AC005874, AF134471, U96629, AL024507, AC007056, AP000352, D87675, AL109798, AC009510, AL133500, AC009946, AC002302, AL022726, AL034549, AC005089, AL049569, U95742, AC005488, AP000511, AC007216, AC007199, AC005037, AC012085, AF001550, AF205588, AL008721, AP000108, AP000040, AC004554, AL034548, AP000030, AC008372, AP000116, AC003051, AC005899, AC006449, AP000089, AC010209, AC006312, AC004522, AL109758, AC007151, AC003665, AC004797, AC009516, AC016027, U63630, AC006079, AL031427, AC002492, AC004927, AF030453, AC016830, AC008072, AC005088, AC005377, Z83844, AC007637, AL035652, Z82194, AC007450, AC002477, AC006014, AC004983, AC004895, AC002463, AC003007, AC000134, Z85986, AC002476, AP000501, AC005952, AC002352, AL139054, AF091512, AC004686, AL035420, AP000101, AL133245, AC007314, AC008394, AF053356, AF124731, AL132642, AC004675, AC004662, AC005871, U91321, AE000658, AC005695, AL031737, AP000115, AL022302, AC007263, AC006013, AC003687, AC005191, Z95114, AC005632, AC003036, AC007227, AP000694, AC004638, AP000952, AF195658, AF088219, AC004834, AL031281, AC007283, AC005484, AC007226, AC005224, AL031985, AC004966, AC006536, AC004765, AC002554, AP000085, AC005187, AC004796, AC005829, AC005921, AC004031, AC007198, AF067844, AC005972, AC006059, AC006006, AC004777, AC005911, AC004817, AC010206, AF106564, AC005288, AC005553, AC003668, AC020663, AC008044, AC004876, AL022400, AC005520, AC005969, AC006571, Z82215, AL021878, AF118808, AC006509, AJ003147, Z95152,

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HNHHF96	5244	796402	1 - 315	15 - 329	
HNHHG47	5245	720361	1 - 300	15 - 314	
HNHHG50	5246	724411	1 - 399	15 - 413	
HNHHG65	5247	750266	1 - 237	15 - 251	
HNHHH13	5248	657251	1 - 254	15 - 268	
HNHHH42	5249	713796	1 - 357	15 - 371	
HNHHH57	5250	734793	1 - 382	15 - 396	AI678676, AI821937, AI754286, W45073, H05449, C75526, AA287259, C75403, AF001549, AC006101, AC006111, AC005736, AL031230, AC004703, AC005399, AC006449, AC007731, Z93023, AC005500, AL022476, AC005576, AC004030, AL132777, U62293, U63721, AC004878, AC006515, AL024498, AC003109, AC007564, Z95114, AC005089, AC006130, AC003962, AL031228, AC005037, AC005180, AL049694, AL049830, AC005829, AL133500, AC006312, AC005288, Z93930, AC005537, AC004889, AC003012, U91318, AC004887, AC007384, AL022336, AL049776, AC004895, AL139054, AL121603, AP000133, AF111168, AL035086, AC005071, AL246003, AC006960, AL121658, AC004832, AF003528, AP000512, AF031076, AC004859, L44140, AC006241, AC006030, AF067844, AC005015, AL080243, AC005914, AC002316, AF118808, AL020997, AC005520, AL021391, AP000300, AF031078, AL121653, AC005562, AL031432, AF030876, AC005911, AL022721, AL024507, AP000694, AF064861, AC004491, AC005088, AL079342, AC005206, AP000355, AC005280, AF205588, AL031295, AC007363, AC005412, AC005094, AP000045, AP000113, AP000116, AC004216, AC004408, AC005667, AC005516, AL008718, AL023284, AC004638, AP000555, AC007057, AL049872, AL031905, AC005358, AC006417, AC006017, AC005971, AC006071, AC004098, AC004967, and AL133445.
HNHHI10	5251	964659	1 - 227	15 - 241	
HNHHI28	5252	859941	1 - 415	15 - 429	Z97205.
HNHHI34	5253	706699	1 - 400	15 - 414	AI109657.
HNHHI36	5254	708132	1 - 427	15 - 441	AI580362, AA676819, AA677954, AI831913, AI628458, and AL031123.

HNHH165	5255	750263	1 - 374	15 - 388	<p> AW238278, AL048925, AA454177, AW023672, AA493708, AL119691, AA101689, N23896, AI567076, AA515909, R24887, AI801482, AI246796, AA579179, AI281881, AW407578, AW341900, AW270270, AA503473, AI371249, AA613232, AI733856, AW062724, AW167372, AW131249, AW419262, AA630362, AW072587, AA507824, AI860020, AI061313, AI355206, AA559241, AI184226, AA483223, AA74780, AA098993, AA720702, AA578481, AI589230, AA587991, AA642060, AI056177, AI279417, F34498, AI279037, AI933714, AI148277, AI733755, AA326441, AA614163, AA613345, AA446657, AW162489, AA805846, AA719073, R77905, AA847499, AW406162, AL120687, AL122023, AC007676, AL021154, AC007684, AC006285, AP000556, AC004167, AC006480, AL022313, AL049553, AC012627, AC006538, AC004526, Z15025, AL121757, AL121603, AL133371, AC002070, AL035089, AL096791, AC006312, AC000026, AL035079, AC005358, AC003029, AC004638, Z95152, AC002059, AL031667, AC005736, AC005089, AC007537, AC003046, AC000353, AL020997, Z74739, AC004020, AC007055, AC004817, AL008718, AP000151, AP000090, AL109628, AC007226, AC007277, AJ003147, Z75887, AP001038, AL008583, AC000003, AC002525, AL135744, AL021808, AP000962, AL035249, AC005667, AC007066, AC007546, AL049713, U07563, AL049776, AC006511, AC004583, AP000134, AP000212, AC005102, AC005071, AC005940, AL031431, AC005520, U62317, AC005971, AL021392, AC005164, AC005921, AC004024, AC010170, AC005375, AC007014, L78833, AL080317, AP000260, AL035458, AC005288, AC005808, AL049636, X16873, AB023049, AC005562, AL008582, AC005411, AL049830, AC000090, U95740, AC005548, AL080242, AC006006, AF196969, AL035659, AF053356, AP000281, AC000081, AC006241, AC005081, AC004991, AC004598, AC004019, AC007191, AF001550, AL035450, AC005015, AC005837, AF165926, AC005409, D87675, AC004675, AC006077, AC002544, AC007993, Z93017, AP000252, Z83843, AP000036, AC004605, AP000039, AL031733, AC002310, AF196972, AC005839, AF111168, AC005527, AP000302, AC002365, AC006515, AL031390, L78751, AL031673, AC005694, AL109865, AP000557, AC007021, AC008115, AF088219, AC007227, AC002288, AC007371, AC006252, AC003682, AC005585, AC004875, Z99755, AC004887, AC004655, AC006548, AC005193, AC006013, AL035420, AC005484, AC002470, AC004386, AC006441, AC004913, AL132712, AL022318, AC004079, AC005479, AC006539, AL080243, AL031296, AC006251, AL022320, AC002565, AC004878, AC003982, AL031282, AP000501, AB003151, AL121658, AF139813, AP000115, Z85996, AP001053, AC007664, AF031078, AC000379, AC007917, AL034549, AC007510, AC004021, AC003081, AL021918, AC005913, AF134726, AC004408, AF030876, AC004381, AC005046, AC006115, AC006984, AC007292, AC002036, AC008101, AC004112, AC003663, AC002119, AC006130, AC005291, AC006101, AC006315, U85195, AC009044, AC005914, AF003626, AL021807, AF124523, AC005202, AC004797, AC002477, AP001054, AL049539, AP000356, AC016027, AC006139, AC002395, AC005529, AC005841, AC004972, AC005535, AL031589, AL034343, AC005284, AL022329, and AJ246003. </p>
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HNHH172	5256	510619	1 - 716	15 - 730	AA434086.
HNHHK06	5257	935517	1 - 418	15 - 432	AC005280, AL109628, AC006006, and AC004686.
HNHHK39	5258	937598	1 - 400	15 - 414	
HNHHK46	5259	718081	1 - 435	15 - 449	
HNHHK62	5260	741835	1 - 214	15 - 228	
HNHHK74	5261	765601	1 - 324	15 - 338	
HNHHK84	5262	781980	1 - 358	15 - 372	
HNHHK93	5263	792326	1 - 548	15 - 562	
HNHHL22	5264	674617	1 - 321	15 - 335	T12412, Z73967, and AL031985.
HNHHL70	5265	757201	1 - 339	15 - 353	
HNHHL74	5266	765598	1 - 212	15 - 226	AA657808, AA742850, AC006561, AC004751, AL021367, and AC005060.
HNHHL92	5267	756587	1 - 249	15 - 263	AC002288, AC002350, AC005076, AC007052, and AL049569.
HNHHM10	5268	964656	1 - 324	15 - 338	
HNHHM17	5269	661964	1 - 153	15 - 167	
HNHHM25	5270	678144	1 - 272	15 - 286	
HNHHM28	5271	575451	1 - 450	15 - 464	<p> AI860538, AI963420, AI683827, AA342712, H74211, AA497013, AA342852, H73133, AA587516, H91062, AL120897, AA176978, AA847499, AA808173, AI243789, AI284045, AA477103, AI216799, AI471691, F09180, AA653618, AA488746, AA491882, T06828, AA224902, AI357288, AC005899, AC002492, AC009247, D87675, Z95152, AC004257, AL031282, AC009516, AC005779, AL022323, Z98036, AC003684, AC002394, AC005399, Z83840, AC007664, AC007263, AC004491, AF111168, AJ006996, AC004887, AC005736, AC002404, AL031428, AC005632, AC006023, AC002119, AC006538, AC005914, AC004024, AC003109, AP000356, Z93016, AJ246003, AP000097, AC006973, AC006111, AL122020, AC007371, AL021394, AC006116, AL050348, AC003029, AC004797, AL049869, AC005209, AC007546, AL022326, AL008582, AL078477, AL049776, AC006312, AC006285, AC005907, AC002350, AC007225, AC004019, AL035683, U95742, AC006487, AL121655, U91326, AC006064, AC006120, AC005067, AP000557, AP000011, AL096791, Z69917, AC004827, AC005785, AC005562, AC007731, AC004890, AC003957, AC006014, AC005089, AC000393, AC007216, AC004668, Z95114, AC004686, AL008629, AC002546, AC003663, AC005324, AF200465, AP000505, AC004148, AC006480, AD000092, AC005962, AL034379, Z15025, AL031577, AC004675, AL009181, AL133243, AP000201, AC006468, U91318, AC007748, AL031311, AC005822, AL133448, Z86090, AL109654, AC005411, AL050307, AF129756, AL008729, AL021807, AC005306, AF203588, AL121658, AC006360, AC000134, AC007052, Z68756, AC000052, AC004999, AC004819, AL031594, U80017, AC004771, AC006050, AL078634, AC004552, AL049830, AC004938, AC004757, AC004905, AL049759, AC004448, Z70280, AF042484, AL079340, AC007192, AC005480, AL109628, AC005821, AF088219, </p>

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HNHHM35	5272	706667	1 - 320	15 - 334	Z93021, AC007446, and AC006314.
HNHHM37	5273	708715	1 - 147	15 - 161	
HNHHM52	5274	727166	1 - 290	15 - 304	
HNHHM55	5275	694373	1 - 528	15 - 542	
HNHHM70	5276	757202	1 - 245	15 - 259	AA082778, AF08218, and AP001058.
HNHHM80	5277	880776	1 - 319	15 - 333	
HNHHN03	5278	920129	1 - 452	15 - 466	
HNHHN07	5279	953393	1 - 347	15 - 361	H74218, AW023111, AA936718, AA364006, AF440117, AF29914, AA581927, AA523695, AF266028, AA486542, AA788592, AF493583, AA018923, AW304536, AF310464, AA772704, H73902, AA502207, AA507684, AF12401, AA610233, AF368732, AF133246, AF117344, AC004491, AL031659, AL049631, AC003071, AC005303, AL035455, Z98749, AL022396, AC005823, AL031904, AC004686, AC004976, AL035496, AP000257, Z82176, AC002126, AC003684, AL031311, AC018769, AC007066, AL118516, AP000098, AC007878, AL049569, AC006509, AC006449, AC005940, AC005082, AC003029, AP000556, AL078581, AC002470, Z93241, AL080243, Z85996, AL135744, AC004622, AC004883, AC006581, AC007687, AC020663, AL121653, AC005005, AC004815, AP000194, U91321, Z98304, AC005057, AL133243, AC005874, AF134471, Z84476, AF124523, AC004983, AL139054, AP000555, AC004991, Z83844, AC009247, AC005089, U96629, AC009509, AC002477, AP000022, AC007450, AL022398, Z84474, AF196971, AL031673, AC005914, AF047825, Z93784, AC004525, AC004033, AL022324, AL022323, AP000163, AL049843, AC004967, AC003007, AC007919, AC005231, AC004134, AL034420, AC002040, AC007773, AL121825, AC007637, AL049776, AC002045, AC008040, AC007541, AC006236, AC007371, AC002300, AP000115, AC006077, U80017, U96409, AC002301, AL035457, L44140, AC005274, AC006205, AC005377, AD000092, AC004878, AC005632, AC007731, AC005829, AC004859, AC005031, AP000113, AP000045, AC004834, Z82215, AC006455, AF111168, AC006312, AC008033, AL049709, AC005899, AC002072, AC005378, AL031587, AL031291, AL031230, M55987, AL035086, AL022318, AL049849, AC010206, U29874, AC007051, AL021391, AC000035, AL049869, M89651, AC005412, AC005666, AF038458, AC007386, AC003051, AF036405, AC004922, AC005102, AC004914, Z83838, AC004408, AL109865, AL031432, AC006388, AC002395, AL031680, AC004813, AP000966, AF165926, AC006071, AP000313, AF053356, AC004382,

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HNHN11	5280	964657	1 - 337	15 - 351	
HNHN19	5281	668681	1 - 333	15 - 347	
HNHN31	5282	698035	1 - 104	15 - 118	
HNHN62	5283	745700	1 - 312	15 - 326	
HNHN93	5284	751659	1 - 345	15 - 359	AI733700, AI733701, AI191504, AI191500, AI792423, and AI761827.
HNHN08	5285	953398	1 - 339	15 - 353	AL049845.
HNHN015	5286	424836	1 - 331	15 - 345	AA345594, AI884861, AA724224, AA225100, R76290, AI671077, AA452569, AA808847, F34170, AA344768, AI537800, M78137, T94072, AA857812, AW265688, AI300818, AI310992, AA358258, H78034, AI469392, H72642, AI648514, AA668475, R06740, AA078384, AA679353, AI469140, AI199816, H44537, AL039057, AA196552, R96373, AA020882, AA313075, AA846923, AA809089, AA856815, R01209, AI419337, AI361090, AA677848, AA321010, AA705075, T08386, AL047645, AI288033, AI421950, AI368873, AA354324, AI890971, AI205783, AI859906, R70884, AW089625, AI088127, AW026305, AI285493, AA938390, AI682727, AA584862, AA630122, AI255004, AI255015, AA219349, AA230075, AA604515, T07779, AA581525, AI624800, AI052194, AI570805, AA581927, R70883, AA339749, AI037907, AA992610, AW337992, AA112924, AI538236, AA772704, AA838192, AA325742, AA324088, AW019964, AA468975, AA326330, AA093114, AI253376, AW192402, AA458534, AA197019, AI905770, AI493583, AA515631, AA629888, AI751753, AI613465, AA156551, AI678812, AI280574, AA890060, AI860535, AI889426, R32162, AI376454, H38769, AI734155, AP000473, AC006236, AC008975, AC007556, AC005553, AL031291, AL035405, AC007546, AC007684, AL133500, AL034421, AC004829, AC007270, AL049569, AL049643, AC004655, AC002310, AL031284, AP000462, AC022517, AF060568, AB017654, AC006930, U82668, U73169, AC006323, AC004893, AL132668, AL049838, AL008721, AC004983, Y10196, AC004067, AC004915, AC004878, AC006014, AC005488, AL049709, U52112, AC004531, AC004601, AC005858, AL008712, AC005288, AC007686, AF111169, AC004230, AC004973, AL033375, AF030453, AC005088, AC006480, AP000699, AL031728, AC005005, AC005863, AP000501, AL078638, AP000227, AP000087, AL078581, AC005061, AC004941, AC005344, AL031589, U34879, AC004084, AL022398, AC003108, AL035464, AJ010598, AL121578, AC010168, AC005036, AC005808, AC005972, AF118808, AC004143, AL031905, AC006262, Z85987, Z95115, AC004844, AL096791, AC007263, AC004099, AC009509, AL034429, AC005480, AF042091, Z97053, AF134726, AC004216, AC006241, AL049563, AC005684, AP000694.

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HNHHO49	5287	722991	1 - 340	15 - 354	AA826320, A1569363, AA410834, A1064955, AA715814, AA657726, AA508744, AW157667, AA912287, A1792566, AC004595, AC007225, AL035659, AC004805, AC005874, AF134471, AL049714, AL035089, Z84466, AL080243, AC004534, AC005358, AC002544, Z85986, AC000403, AL031588, X99832, AC007216, AC005027, AC005632, AL031591, AL049759, U52112, AC007011, AC005529, AC004551, U95742, AC004382, AC006449, AC002456, AL009181, AC004472, AC004882, AC004983, AC006117, AC006453, AC002425, Z83822, Z83845, AC002543, AF047825, AL031005, U47974, AC009479, AC002067, AP000493, AL031767, AC005606, AC003104, AC004876, AC000085, AC005666, Z99129, AC007688, AL035460, AC002468, U91321, AL049843, AL033527, AC009248, AC003098, AP000510, AC005154, AC004832, U62317, AC002349, AC005682, AC004894, AL020997, Z98044, Z98051, Z93244, AC005071, AC004859, AC007055, AC007298, AB023048, AC006013, AC004966, AL049766, AC004196, AC005304, AC002492, AC006088, AC006441, AL034555, AC002126, AC004598, AC002064, AL049869, AL021154, AC005568, AL031283, L29074, AL049631, AL031602, AL031133, AL035458, AL133448, AL049779, AF037338, AC004821, AP000558, AC005225, and AC009731.
HNHHO66	5288	727167	1 - 325	15 - 339	
HNHHO79	5289	774038	1 - 311	15 - 325	
HNHHP02	5290	920120	1 - 329	15 - 343	
HNHHP04	5291	935501	1 - 300	15 - 314	
HNHHP16	5292	661962	1 - 343	15 - 357	AC005596.

HNHHR04	5293	935502	1 - 341	15 - 355	
HNHHR46	5294	720358	1 - 334	15 - 348	
HNHHR61	5295	741830	1 - 311	15 - 325	AL022396.
HNHHR93	5296	775194	1 - 399	15 - 413	
HNHHS46	5297	956186	1 - 671	15 - 685	AA553367, AW452948, AA828734, and AI912090.
HNHHS74	5298	765584	1 - 408	15 - 422	AA586573, AC005036, AI.021026, AC003951, AL034551, Z83820, AC002463, Z68325, AC004062, AC004949, and AP000082.
HNHHS76	5299	788913	1 - 300	15 - 314	AI541356, R29657, AA585098, T18597, AA585325, R45895, Z32822, AA585101, D53161, R28735, R29445, D57491, C15406, AI557740, Z28355, D59751, AA585155, AI557262, AI557864, R28892, D61185, Z32887, C15069, AI526140, AI541365, AI525500, AA170832, AA585439, R28965, D59436, AA585378, AA585329, R29218, D60844, AI526184, AI526078, AI557731, AA585476, D60765, D54897, R28967, R28895, AI557727, AI541205, AI541535, AI546971, C16315, AI525556, AI525316, AI541383, AA283326, AI541517, AI547250, AI546875, AI557763, D61254, AI557734, D53472, AI546999, AI526016, AI557787, C16293, AI541013, AI547039, AI557807, D55233, AI525306, D53447, C16300, AI541374, C16294, C15120, AI557084, D52835, AA585356, AI524945, AI541346, C16292, AI557718, AI546945, AI525431, AI557155, AI547196, C15762, AI557408, AI526191, AI557758, C16305, AI541523, Z30131, R29179, AI525339, AI541034, AI526194, C15737, AI557809, AI546921, AI541307, AI546996, AI540967, AI546891, AI547006, AI540903, AI557602, AI540974, D60730, C16296, AI526109, Z33559, R29177, AI525320, AI557279, AI547202, AI526176, D57186, AI541321, AA585453, AI526024, R29262, AI557808, AI526112, R29172, AI526158, D51433, C14208, AI541527, AI535639, AI535660, AI536138, D54850, AA585430, AI546829, AI557533, AI526113, AI541510, C16290, AI525856, AI557039, AI526195, D59458, AI556967, T19407, AI547137, AI526073, AI526180, AI557264, AI546831, T41289, Z36724, AI541422, AI525656, AI526117, AA174170, AI525332, AI526187, AI525286, AA514191, AA585117, AI541515, AI547189, AI529433, AI540920, T41329, AI541492, AI524904, AI524890, AI557799, AI524891, AI546855, AI541027, AI541345, AI557041, AI557238, C14322, AI557852, AI546828, AI541506, AI541415, AI557082, AA585434, AI526205, AI557786, C14391, AI541402, AI525114, AA585440, AI546901, AI557317, AI557285, C14723, AI525168, AI526146, AC005913, AR038762, AR038855, AR062871, A25909, Y09813, X82786, Z32836, AR054723, AL021395, X81969, AJ244005, Y16359, AF082186, D78345, D50010, D13509, AJ244004, A20702, AR062872, AR062873, A20700, A43189, A43188, AR017907, AJ244003, AC002563, X55486, X76012, AC007308, AC002470, AL031293, AC002430, and AC007384.
HNHHS79	5300	775192	1 - 359	15 - 373	
HNHHT35	5301	707342	1 - 392	15 - 406	
HNHHT55	5302	465438	1 - 418	15 - 432	AC000093.
HNHHT70	5303	783033	1 - 180	15 - 194	AI274692, T40452, F33126, AA076426, N25415, AA321595, AA975915, AI273675, AI268564,

HNHHU46	5304	465395	1 - 346	15 - 360	AW276933, AI138918, AA741020, AI371804, AI812021, AA640204, AI343078, AW341882, T76991, H13565, AF109907, AL034423, AC004491, AF038458, AC005668, AL033527, AC005740, AC004552, AC005822, AC005548, AC007546, AL109733, AF088219, AC005859, AC003959, AL035089, AL009181, AC006343, AC005082, AC005919, AC004470, AC004531, AC007388, Z98047, AC006059, AL121603, AL023799, AC005291, AP000696, AL135744, AC006996, AC007312, AC003098, Z94721, AF003626, AC004858, AP000688, AC002070, AC004967, Z98941, AC008372, AL031117, AC004841, AL035425, AL139054, AC005539, AL035695, AC005971, AP000031, AC004916, AE000658, AL109865, AC004217, Z98946, AC011311, AL035400, AC003071, AC004685, AL049833, AP000344, Z94056, AC004849, AL109963, AL021408, AL133245, AC007376, AC002381, AC007938, AC012384, AC005049, Z84469, AL080243, AF117829, AC006305, AC004870, AC005800, AC002312, AI251973, AC005412, AL031650, Z98304, AC018769, Z96074, AC005994, AL035555, AL031657, AC006441, AL023807, AL023281, Z86062, AC005670, AC005158, AC002416, Z99716, AC007878, AL049696, AC004003, AC003950, AP000516, Z98752, AC004813, AL117694, AC004583, AC004801, AL049776, AC002365, AC004522, AL049843, and Z93241.
HNHHW01	5305	859935	1 - 407	15 - 421	AI950671, AA586656, F03525, AA829565, AI611739, AC005837, AC006285, AL121595, AL050317, AC002527, AC006088, AC005488, AC005318, AC002996, AC004942, AC005841, AF165926, AC005209, AC016025, AC005368, AC007151, AC005971, Z83840, AC005914, AC002477, AF205588, AL133382, AL049766, AP000347, AL121652, AF053356, AC006011, Z82244, AL008721, AL022345, AL049776, AL133163, AL133245, AL050318, Z99716, AL049712, AC003109, Z97053, AC006468, AC008372, AC004821, AC004408, AC005924, AL034343, AC005899, AC004854, AC005765, AC002369, AL021808, AP000692, AL109798, AL049829, AC004601, AL049759, AC006449, AC005933, AL023807, AC004966, AC005902, AC004019, AC002352, AC016026, Z83826, AC005482, AC004526, AL034379, AL031283, AC005529, and Z95114.
HNHHW01	5305	859935	1 - 407	15 - 421	Z98885.
HNHHW32	5306	699255	1 - 272	15 - 286	
HNHHW58	5307	739288	1 - 228	15 - 242	AA824650, AA663908, AI302974, W89152, AW338697, AL035400, AC005912, M63543, M63544, AC007227, AC004841, AC004263, AC007327, AL023807, AC007993, AC006430, AC005764, AF141309, and AC004408.
HNHHW61	5308	742071	1 - 145	15 - 159	
HNHHW73	5309	765588	1 - 322	15 - 336	
HNHIA02	5310	920094	1 - 482	15 - 496	AL119119, C06015, T11417, D59503, D81111, D80064, C14227, D58246, C14389, D80195, AW360811, D59502, AW177440, D51799, D80164, AW178893, C15076, D81026, D80258, AW375405, D59467, C14407, D59275, D58283, D58101, D80227, D80022, D81030, D80166, D59859, C14331, D80193, D59619, D80210, D80391, D80240, D80045, D51423, D59787, D80038, AA305578, D80253, D80043, D80212, D80196, AW366296, D80188, AW360844,

					AW360817, D80219, D57483, D59610, D59927, AA514184, D80378, AA514188, D59889, D80024, D80302, A1557774, D80439, AW177501, D80269, AW177511, C14298, D80247, D50979, D80522, AA305409, D80251, D80168, D80241, D80014, A1557751, D80268, D80366, D51022, C14429, D80248, D50995, C14014, D59695, D51060, F13647, AW360841, D51103, D80133, AA514186, D80157, AW179328, AW352117, D52291, D59653, AW360834, A1535686, D45260, AW375406, D51759, D59627, AW378534, C03092, T03116, AA809122, AW179332, AW377672, AW378539, D80949, AW179023, AW178905, D51079, H67866, T03269, A1525923, AW377671, H67854, AW378533, C05695, C75259, AW378532, AW369651, AW352171, AW178907, D59317, AW352170, A1525920, AW177505, D59373, AW178906, D51250, AW377676, AW179024, AW178775, D59551, A1525917, T48593, AW177731, AW178909, AW177456, C14973, AW378528, AW178762, AW179019, C14344, D51221, AW179329, AW179018, AW178980, D59474, Z21582, AW178754, D60010, D60214, AW179020, AW352158, A1525227, AW178908, C14046, A1910186, AW177733, D45273, C14957, A1525235, AW179012, A1525925, AW352120, AW378525, A1525242, AW179004, A1525215, AW177734, AW367950, D51213, AW178986, AW178914, AW178774, AW176467, T02868, D59976, A1525912, AA285331, C14077, AW178781, C16955, AW378542, C05763, Z33452, T02974, A1525237, AW179009, H67858, A1525222, AW178911, A1525928, AW378543, A1535959, AW378540, AW177722, AW352163, C13958, AW360855, A1535665, T03048, AW177728, C04682, D51053, D31458, Z30160, N66429, D80314, D80228, AC000378, A82595, AR060385, A84916, AB028859, AJ132110, A62300, A62298, AB002449, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, AR016808, I14842, AR054175, Y17188, D26022, AR016514, X67155, A67220, Y17187, AR060138, Y12724, D89785, A45456, A94995, A26615, AR052274, A43192, A63261, A43190, AR038669, A78862, D34614, A70867, AR066488, A25909, Y09669, AR066487, AR062872, A30438, AR008277, AR008281, AR008443, I82448, AR016691, AR016690, U46128, D88547, I79511, A64136, A68321, X82626, D50010, AR008408, X68127, X64588, AR025207, AR060133, AF123263, and AR032065.
HNHIA16	5311	661931	1 - 411	15 - 425	AA601673, AW088224, A1453383, AC007406, AL079340, AC020663, AC007707, Z95114, AC007934, AC005667, AP000557, AP000359, AP000692, AC003689, AP000326, AC004003, AC005071, L47234, AP000169, AP000054, AP000122, and AL132712.
HNHIA20	5312	669685	1 - 408	15 - 422	AF110326, and AC004559.
HNHIA34	5313	706675	1 - 192	15 - 206	AL078614, and AL109748.
HNHIA58	5314	736046	1 - 378	15 - 392	A1355414, AA228442, AW192599, A1569100, A1754567, A1038304, A1249688, A1285696, AA605056, A1580707, A1570943, AA262752, AA779783, AA904211, AA297208, A1077941, A1755214, T03576, AA601218, A1049701, AA828834, AA838091, AW131356, AA689351, AA127222, A1039257, AA508036, AA525293, AW070532, AA343523, AA569402, AA69727, AA228979, AA229823, AA558404, AW081610, A1080307, AC005841, AC005071, AL022721,
HNHIA64	5315	745861	1 - 437	15 - 451	

HNHIA73 HNHIA94 HNHIA95	5316	559344	1 - 258	15 - 272	AC004217, AC005365, AL079295, AL049747, AF109907, AL049869, Z81369, AC003950, AL008725, AL080317, AC007993, AC001083, AC005531, AL109628, AJ246003, AC005180, AC005618, AC002312, AF196969, AF111168, AC005535, AC005220, U58668, AL031595, AC002400, AL035458, AC004596, Z83826, AL031848, AC004222, AC004223, AC004878, AL008582, AC006487, AL034420, AC005844, AC007688, Z83847, AC006544, AC005277, AC007225, AC005911, AC005229, AC004148, AC005500, AC005486, AC005300, AC002470, AC007227, AP000692, AC005003, Y14768, AF207550, AL049569, AC005821, AC005057, AP000103, AC005800, AL035405, AL022315, AL079304, AP000087, AP000505, AC005377, AL117694, AC002094, AC003983, Z94056, AC005288, Z86061, AC004638, AL109613, AC004491, AF031078, AC005274, AF134726, AC005081, AC005082, AL031427, AC007283, AC005261, AL080243, AC005089, AC005529, AF196972, AC005399, AP000553, U91326, AC003109, AF030876, AL121658, Z98048, AC007226, AC007308, AC007421, AL121653, AC002430, AL035249, AC002310, AC006101, AC005015, AC004797, AF129756, AE000658, AC011456, AC005921, AL109798, AC005940, AC005484, AC005231, AC005412, AC005871, AC006064, AL031587, AC006077, AC007384, AC009509, AC004477, AL109952, AC006948, AP000117, AL022334, AC005252, AL133246, AC006468, AC005578, AC006006, AL049872, AC004883, Z98044, Z99716, AC007546, AL022322, AC004033, AC004475, Z81359, AL049843, U07563, AC004000, Z95116, AL031432, AC004812, AC006571, AC005157, AC004685, AC007731, AP000350, Z98304, AC005031, AL031133, AL022326, U91321, U80459, AC004832, AL031659, AC002477, AC006121, AL121652, AL035071, AC004494, AC005387, AL049766, AC004858, AF196971, AC003378, AP000689, AC004693, AL078584, AC008072, AC007551, AC011362, AC000353, Z99128, AP000045, AC005881, AC007676, U07562, Z70288, AL050306, AC007842, Z83844, AC004813, AL023575, AL080242, AC007774, AC005702, AC006953, AL133396, AC005971, AC002351, AL078638, AC005600, AC005668, AC005355, AC002554, AC002316, AC022517, AC002369, AC002395, AL050341, D87675, AC006285, AC003663, AC006315, AC004125, AL139054, AC004922, AC004150, and AC004531.
	5317	970720	1 - 295	15 - 309	
	5318	908419	1 - 434	15 - 448	
HNHIB22 HNHIB56 HNHIB77 HNHIB94 HNHIC39	5319	967038	1 - 348	15 - 362	R93353, AA447817, AA574189, AW139964, W81697, A1887846, AA831618, AA677404, A1124782, AA447667, AA765804, AC008173, AF124523, AF146367, AF118808, Z83841, AC002464, AC005820, AC006048, AC004074, AP000509, D84394, AL096775, AL109954, AC007359, AC008175, AL096801, and AC006313.
	5320	734763	1 - 318	15 - 332	
	5321	781214	1 - 396	15 - 410	
	5322	793210	1 - 338	15 - 352	
	5323	705375	1 - 410	15 - 424	

HNHIC46	5324	842003	1 - 441	15 - 455	AA169263, AA610219, N23896, AI053911, AA526630, AW074382, AA747469, AA719510, AA532882, AI537772, AI460009, AA961035, AA804925, AA378690, AA380354, AA829073, T60681, AA564865, AW191886, AI678368, AA526856, AA557883, AW021583, AA807583, AA679154, AA613624, AA533944, AI802801, AI720058, AA706291, AW410354, AA137013, AA662976, AA353907, AI383057, AA338544, AI791150, AA954924, AI254779, AA847515, AA599550, AA807845, AA127426, AA551105, AA630672, AA613232, AW148507, AI445088, R58559, AI249683, AA659535, AL047349, AW069572, AL037632, AF034194, AF037630, AA531580, C75192, AI267818, AA722297, AI654738, AW168520, AI811563, AA331301, AL079709, AI783549, AA948728, AA640277, AL120986, AA136577, AA011026, AA604840, AA864261, AA668387, AW082559, AI086830, AA664942, AL138329, AC005668, AC005722, AC007161, AC007308, AC004706, AL133382, Z84489, AC002470, AL096762, Z84487, AC006222, AC010209, AP000252, AC002538, AC006023, AP000134, AP000212, AC004522, AP000022, AC004801, AL079304, AC005288, AF207955, AC004967, AL022312, AC006353, AC006013, AC005796, AR036572, U91328, AC004694, AC005593, AL008707, AL021397, Z84469, AC006144, AC004263, AC000025, AF196969, AC005519, AC005527, Z97632, AC008012, AL050348, AL080243, AC006079, AC005340, AC005953, AC007136, AC004134, AC007845, AC006974, AF196970, AI031685, AC005335, AC007868, AC005529, AC005594, AC005280, AC004815, AC006275, AC009247, AC007066, AL133355, AL022069, AC007463, AC003009, AP000159, AP000017, AC000353, AL022320, AC003669, Z97183, AL109963, AF111167, AC002350, AP000359, AC002369, AC004517, Z82901, AC006211, AL135960, AJ131016, AL031846, AC004526, U89335, AL080241, AL133445, AC007226, AC005940, AC004864, AC005531, AC005932, AL031721, AB014077, Z93017, AC005495, AL008723, AC004212, AB023050, AP000512, AC005226, AC004841, AP000164, AF121781, AL022165, U16812, AC007193, AP000113, AC004558, AC005666, AC004960, AC004832, AC002997, AL031229, AC004938, AL139054, AC004656, AC002070, AC009516, AC002299, AC004209, AC005736, AC004019, AP000076, AL031295, AC004934, AC006130, AC004097, Z83838, AC007565, Z95152, AP000964, AC005756, AL022315, AC004410, AC007435, Z85999, AC002105, AC005808, AC006449, AC004000, AF207550, U73169, AP000245, AC005837, AL035422, AL133448, AP000300, AL034548, AC016026, AL034549, AL008726, AL133371, AC004686, AC000094, AL096701, AF038458, AC004486, AL022721, AC002310, AL031311, AC010197, AF186194, Z93783, AL031296, AC006241, AL078476, AC002492, AF039907, AP000553, AL020997, AC005224, Z11900, AL096774, AC005255, AC005360, AF227510, U91322, AC000364, AP000514, AP000510, AP000556, AP000557, AC003007, AC007041,
HNHIC96	5325	779876	1 - 371	15 - 385	
HNHID29	5326	690646	1 - 391	15 - 405	
HNHID53	5327	727151	1 - 395	15 - 409	
HNHID55	5328	731761	1 - 438	15 - 452	

						AC005632, AL133297, AL049766, AC004099, AB022785, AL121769, AP000697, AC007666, Z97056, AL031680, AC004553, Y14768, AP000045, AL122020, AC002468, AP000550, AC007312, Z98752, AL031230, AC005160, AP000348, Z93023, AL034429, U85195, AF027390, AC004707, AL109939, AL031589, AL121603, AF065396, AC004859, AC004778, AC004646, AC008018, AP000155, AP000505, AL049776, Z74739, AC000052, AL034376, AC005144, AC004776, AP000356, AC006001, AE000658, AC004812, AC006312, U95742, AC003950, AC004887, Z84480, AC005694, AC006138, AL049647, AC005823, AC004149, AL031432, AL049539, AC005695, AL078583, and AB023048.
HNHID79	5329	774044	1 - 445	15 - 459		
HNHIE75	5330	765585	1 - 403	15 - 417		
HNHIE82		921945	1 - 652	15 - 666		AA601335, AC002041, AC006359, AC006352, U91320, and AC007028.
HNHIG01	5332	916503	1 - 396	15 - 410		AL110311, and AL035460.
HNHIG13	5333	465404	1 - 315	15 - 329		AW385577, and AL035652.
HNHIG19	5334	668657	1 - 417	15 - 431		AC005346.
HNHIG37	5335	708713	1 - 400	15 - 414		
HNHIG68	5336	753025	1 - 398	15 - 412		
HNHIG71	5337	465407	1 - 414	15 - 428		
HNHIH23	5338	675262	1 - 311	15 - 325		
HNHIH27	5339	681727	1 - 424	15 - 438		
HNHIH29	5340	689891	1 - 182	15 - 196		D45273, D80269, D59467, D80227, AA809122, D50995, D51079, D80043, D59275, T11417, D50979, Z21582, D80378, Z33452, C14077, F13647, T03048, T02868, D51423, AI525242, Z30160, H67854, D80188, D80247, D57483, C14331, T02974, D51799, AA514188, AI557774, C14344, D59610, C14407, D59927, AA305720, D80241, D58101, AI525237, AI525917, AI525920, AI525903, AI525238, N66429, AI525907, AI525227, AI525215, AI525969, AI535961, AR008277, AR008281, AB002449, AR016808, AR008278, A84916, I79511, AR054175, AR018138, and AF058696.
HNHIH46	5341	720333	1 - 402	15 - 416		AA480792, AI687146, AA594072, AA351003, AA984114, AC002530, AC004637, AL009031, AC002326, AC002352, AC004408, Z70280, Z96104, AL033504, AP000503, AF134726, AC000134, AJ239322, AC005939, AL109847, AC002978, AL118498, AC004019, AL031733, AC008115, AB016897, AF095725, AL109623, AC002546, AC004125, AL139054, AC005859, AC008040, AC000081, AC005512, AP000326, AP000169, AP000054, AP000122, AC006088, Z97832, AL049830, AC000118, AL009178, AC004167, AL009174, AL034423, Z93017, AC007486, AC005881, AL109628, AP000555, AC004084, U79746, AC002477, AC005229, AC002044, AC000353, AC005562, AL020997, AC002072, AL049694, AC005484, AC003043, AC012099, and AL136297.
HNHIH58	5342	739290	1 - 343	15 - 357		AL031728.

HNHJH66	5343	684531	1 - 162	15 - 176	AC005209.
HNHJH71	5344	760371	1 - 311	15 - 325	AW069227, AW406755, AL041375, AT791659, AT479148, AT365988, AT358229, AT431303, AA502532, AT753365, AT354228, AT521525, AA226584, AT355246, AA573020, AW151541, AW419262, AA482711, AA861959, AT609972, AT754926, AW193265, AA424249, R67701, AA128592, AT912401, AT356440, T29180, AT289505, AT926102, AT084012, F00982, AT431434, AA148489, H79586, AT362552, AA904211, AT471481, AA176605, AT798449, AA015948, AW316969, AA984258, AT244254, AT755214, AA610491, AW084173, AT888468, AT797998, AW341955, AT634187, AA682912, AA846923, AT754105, AA584482, F36273, AA904275, AT569363, AW261996, AA601680, AA642809, AL04858, AC006064, AC004477, AC020663, AC006111, AL035684, AC005488, U85195, AC007376, AE000658, U47924, AP000462, AC005695, AC004834, AB017654, AC005081, AC005257, AL021546, AC002369, AP000557, AL049869, AC004019, AL049872, X55928, AC007993, AC008545, AL008726, AL009181, AP000348, AL022237, AC005037, AF111168, AC002425, AC006449, AL023575, AC005480, AC005041, AC004156, AC005255, AC005231, AC004752, AC007387, AF207550, AL135744, AC006125, AF053356, AC005034, U78027, AC005776, AC007421, AC006952, AC005215, AC004821, AC006512, AP000355, AC002544, AC002395, AD000092, AL035455, AC002310, U95742, AL034379, AC005048, AC003682, AL079295, AL035072, AC002316, AC004812, AC002126, AC005071, AL035089, AC005581, AC004491, AC004496, AC005409, AC004263, AC005971, AL034420, AC002477, AC005330, AC004983, AC005412, AC002492, AL031390, AC004216, AL034417, AL031767, AL022326, AT031311, AL031685, AC005305, AC006014, IS1997, AC009516, AB000882, Z98752, AC005057, AP000211, AP000133, AC007785, AC016025, AL133245, AL022323, AC006011, AC004106, AC000075, AC007546, AL021707, AC004887, AL078581, AC000084, AL136295, AC005399, AL109758, AC002314, AL132641, AC005726, AC006112, AL096702, AC002491, AF011889, AL080243, AC007242, AC007298, AP000210, AP000132, AP000115, AL022476, AC007226, AC007216, AC008126, AC007845, Z86090, AL022165, AF045555, Z81369, AC005944, AL031662, Z98048, AC004098, AC005722, AC003029, AC007182, AC005740, AL121934, AC004150, Z92540, U29953, AL132642, AL133553, AC005069, AC006511, AC006315, AC004890, Z84480, AL096701, AC005527, AF109907, AC003982, Z99291, AC004167, AL031680, L44140, AC006139, AC007263, AP000511, AC004253, AC005193, AP000556, AP000552, Z84466, AC006441, AL034548, AL109827, AL050318, AL049831, AL031255, AC006530, AC007240, AC006241, AC004072, AC002347, AC005914, AC005378, AL022327, AC004494, AC005668, AF001550, AL021579, AF031078, AP000248, AL109963, AP000555, AC005519, AP000356, AF155238, AL034555, AP000512, AC006077, AP000045, AP000113, AC005746, Z82180, AL020995, AC003006, AL031005, AC006365, AF030876, AC006071, AC006948, AC002394, AP000501, AC007541, Z99716, AP000354, AL031228, AL031120, AC005516, AL035587, AC004543, AC005225, .

						AC003663, AC007066, AC005220, AC005180, AC004596, AC005900, AP000514, U95090, Z93023, D87675, AF165926, AC003101, AC003950, AC005197, AC007899, AC006137, AL049760, AC005288, AC009336, AC005324, AC005280, AC005759, U91321, AF129756, AC005261, AC004448, AL049749, AB015355, and AC005203.
HNH1H82	5346	779874	1 - 414	15 - 428		AL023653, and AL022162.
HNH1H96	5347	734114	1 - 596	15 - 610		
HNH1R84	5348	775407	1 - 435	15 - 449		AC005137.
HNH1S14	5349	967087	1 - 405	15 - 419		
HNH1V95	5350	795877	1 - 333	15 - 347		
HNH1W13	5351	657249	1 - 390	15 - 404		
HNH1W35	5352	707339	1 - 391	15 - 405		AA121919, N69190, A1079423, AL119438, A1539009, Z99426, Z98051, AL121769, AL096853, AC005839, AC003663, AC002994, AC006077, AL121603, AC005529, AL109628, AC005755, AL021939, AC005726, AC005678, AL031594, AC004263, AC010382, AC005089, Z98745, AC004019, AP000512, AC005914, U85195, AE000658, Z83826, AL035587, AL009181, AC006571, AC007686, AL022345, AC004382, AC006372, AC005004, AL031589, AC002115, AC004955, AL080242, AC008015, AC004383, AC006509, AC004087, AC006505, U96629, AC003682, AF038458, AL049636, AC005803, and AC004967.
HNH1K115	5353	859926	1 - 409	15 - 423		
HNH1K160	5354	739885	1 - 335	15 - 349		
HNH1K124	5355	859923	1 - 377	15 - 391		AA847395, AA525331, R98239, A1473300, N49802, AA557790, A1609972, AA655005, AA486877, H68186, N95156, A1302917, AW272599, AW327624, A1037714, AW327282, AC003967, AP001050, AL022098, AF124730, U91318, AL109758, AC004771, AC005256, U95090, AC005330, AC005622, AL008726, AL049610, AL035588, AC004743, AF064861, AC004821, AP000688, AC007386, U82828, AC005722, AC005392, AC004456, AL024495, AC005907, AC006130, AL031777, Z93930, AC005006, Z83851, AC004881, AL024498, AL024509, AC004765, Z96074, AP001053, AL049869, AL109759, AC004382, AL133246, AC005799, AL034429, AC005048, AC004049, AB003151, Z69920, AL050307, AL031664, AL022165, AC005017, and AC005083.
HNH1K172	5356	761427	1 - 301	15 - 315		
HNH1K188	5357	786555	1 - 461	15 - 475		AA745582, AA553457, A1937850, AA515224, AA594145, A1570261, A1439360, A1623898, AA310868, A1659826, AW341890, AA704643, AA663306, AA587604, AA805373, AW338086, AA347930, T40077, AA743980, A1590772, AW406755, M86143, A1365988, AW250970, AA358409, AA347927, AA780929, AF147277, AL049776, AP000294, AL118497, AC002544, AC005291, AL035420, AL031276, AP000043, AF196779, AC002350, AC004854, U95742, AL008582, AC006285, AP000111, AC003965, AC002553, AC016025, AC005911, AL049557, AC004955, AF134726, AC010197, AC002470, AL121877, AC005231, AL035681, U96629, U75285, AC006241, AC008273, AC010200, AC004801, AF053356, AC005969, L44140, U91326,

					AC005594, AC004076, AC005510, AL132712, AC004745, Z88872, AC004972, AL008708, AC007793, AF088219, AP000082, AP000557, Z93017, AC006251, AF045555, AC009731, AB020867, AC008079, AB014079, AC003082, AC005197, AC004890, AL096701, AC007032, AL049697, AC004263, AC007731, AC005500, AC009784, AC002365, Z22650, AC004690, AL035699, AC006139, AC000003, AC006153, AP000359, AC004650, U78027, AL035455, Z73417, AC000353, AL023879, AC009509, AB023051, AC005409, Z86061, AC004234, AC000094, AC005944, AP000223, AC000085, AC009178, AF200465, Z97196, AL031584, AC005781, AL022320, AC007308, AC006946, Z83840, AL121653, AC002316, Z97054, AP000952, U13679, AL022721, AL121915, AC004019, AP000552, AP000503, Z83822, AC005181, AC008124, and AP000512.
HNHKN73	5358	762011	1 - 548	15 - 562	
HNHKP30	5359	793658	1 - 336	15 - 350	AC005216.
HNHKP48	5360	721149	1 - 726	15 - 740	AA421400, and AL208373.
HNHKP72	5361	761432	1 - 722	15 - 736	
HNHKS69	5362	750487	1 - 318	15 - 332	AA491361, AA297081, AA649079, AL362442, T31183, AL570805, AA468289, AL732682, AL872493, AL289050, AL872476, AL284092, H25626, AA337978, AL610900, R86141, H01852, AL078143, AA516045, AL035417, AC005043, AC011456, AF049895, AF001549, U52112, AC005881, Z85996, AC005244, AP000962, AL022336, AC006241, AC005480, AC007688, AC005625, Z82203, AP000689, AC022517, AB003151, Z93930, AC004383, AC007774, AL035071, M26434, AC006023, AL109653, and AL109657.
HNHKS75	5363	766926	1 - 311	15 - 325	
HNHKT06	5364	934643	1 - 270	15 - 284	
HNHKT75	5365	766924	1 - 128	15 - 142	
HNHKV67	5366	751205	1 - 363	15 - 377	AC000364.
HNHKBW47	5367	786020	1 - 348	15 - 362	H69968, AA601230, AL120191, AA878492, AW104800, AA629963, AL288033, AL800343, H93132, AA501867, AA362790, AA600132, AA653916, AA525769, AL246061, AA078509, AA079884, AA526662, AL223626, R72242, AW249541, AL312533, R84528, AL869786, AL054090, AA664248, AA678733, C14966, AL251241, AL134332, AL284543, AW238212, AL254770, AL251944, AL251034, AL251203, AL251284, AL250552, AW130446, R87912, AA088738, IL137815, H41308, T08386, AL043315, AW419389, AA487829, AL138017, N25043, AW089950, AL249853, AA286727, AC005348, AC005180, U82828, Z94161, Z81369, AL079295, AC006537, AC007676, AL030333, AL033522, AC005049, AL024498, AF196969, AC005355, AL035067, AL109865, AL009177, AL022328, Z85986, AC006101, AC002117, AC004477, AC005921, AL023876, AL109627, AC007787, AC000070, AC005553, AC004520, AC003071, AC008044, AC005486, AC005697, Z98051, AC005331, AC002364, AC006141, AF222686, Z85999, L43399, AC020663, AL050313, M89651, AF031078, AC006057, AC000067, AF030876, AC005943, AC006088, Z98884, AC004882, AP000260, AC004007, AL050318, AC004765, AL034549, AC002126.

HNHKW76	5368	767917	1 - 499	15 - 513	AC005409, Z97055, AC004834, AL049757, AP000512, AP000099, AC005703, AL022332, AL035588, Z93023, AC005529, AC004491, AC006318, AF186194, AL079339, AC005193, Z69721, AC007298, AC002404, AP000036, AC005911, AC005839, AL139054, AC005696, Z68277, AC007216, AP000159, AP000017, AL031729, AC005837, AC002369, AC006064, AL110114, AL023575, AC005668, AB023048, AC002123, AC005280, Z98036, AC006409, AL022324, AP000128, AP000206, AC007934, AC010209, AC005225, AC004382, AC010205, AC003009, AC002984, Z86090, AC007376, AC004042, AL031255, AC008101, AP000245, AC007938, AL096701, AC004771, AC006327, AC005354, AP000313, AL080243, AL023879, Z84483, AC002477, AC005006, Z84466, AL132777, AF165138, AL049874, AC006480, AC006388, AL132992, AP000555, AC008079, AD000812, AL049569, AC003957, AC007182, AC016830, AC004659, AF124523, Z79997, AC007656, AP000050, AL121748, L47234, AC002351, AF207550, AC001643, AC005632, AL109628, AL049872, AL034420, AC006160, AC006996, AP000117, AC000052, AF181897, AC005209, Z68756, AP000961, AL078611, U52112, AC006039, AC007225, AC002511, AC003110, AB016897, AL035450, AF118808, AC002091, AL033527, AC007242, AP000330, Z97652, AL049795, AC004019, AC006538, Z92542, AL121652, AC002543, AC006208, AF111163, AF053356, Z99916, AL049692, AC005217, AC005971, AL022476, AL049829, AC007227, AL021393, AC005620, AC004629, AL022322, AC005880, and AP000210.
HNHKW76	5368	767917	1 - 499	15 - 513	
HNHKW81	5369	761429	1 - 520	15 - 534	
HNHKW83	5370	780650	1 - 519	15 - 533	
HNHKX10	5371	963575	1 - 824	15 - 838	
HNHKX38	5372	796804	1 - 513	15 - 527	
HNHKX47	5373	789625	1 - 457	15 - 471	AC007649.
HNHKX77	5374	771530	1 - 365	15 - 379	AL008718.
HNHKZ11	5375	966164	1 - 708	15 - 722	
HNHLA08	5376	958422	1 - 595	15 - 609	
HNHLA16	5377	784264	1 - 800	15 - 814	AA483274.
HNHLA55	5378	754480	1 - 652	15 - 666	
HNHLA71	5379	761430	1 - 716	15 - 730	AW087728, and Z98742.
HNHLA89	5380	786461	1 - 547	15 - 561	AA036766, and W61087.
HNHLA90	5381	970724	1 - 595	15 - 609	
HNHLB08	5382	958416	1 - 445	15 - 459	AL046409, AW029038, F36273, AA482711, AI431303, AI350211, AI963720, AI284640, AW276827, AW162049, AI929531, AI679782, AW193265, AI962050, AW088202, AI613280, AI801482, AA469451, AW261871, AI669453, AI345654, AW419262, AL048925, AW088616, AW148792, AW021583, AI358501, AL037683, AA610491, AI061334, AI358229, AA101689,